

Appendix J South Brooklyn Marine Terminal Phase II Environmental Site Assessment Portions of Lots 1, 130, 136, 137, 155, Block 662, January 6, 2022

South Brooklyn Marine Terminal Phase II Environmental Site Assessment (ESA)

**Portions of Lots 1, 130, 136, 137, and 155,
Block 662
2nd Avenue
Brooklyn, New York 11232**

Tetra Tech Project #194-1247-0003
Revision 0
January 6, 2022

PREPARED FOR

Empire Offshore Wind LLC
120 Long Ridge Road, Suite 3EO1
Stamford, CT 06902

PREPARED BY

Tetra Tech, Inc. **P +1-973-639-8000**
6 Century Drive, Suite 300 tetratech.com
Parsippany, NJ07054

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1.0 INTRODUCTION

1.1 Purpose

Tetra Tech, Inc. (Tetra Tech), on behalf of Equinor Wind US LLC (Equinor), conducted a Phase II Environmental Site Assessment (ESA) for portions of the South Brooklyn Marine Terminal (SBMT) located at 2nd Avenue Brooklyn, New York (hereafter referred to as the "Site"). The Site occupies approximately 73.68 acres of land which is largely vacant and primarily consists of asphalt and concrete pavement, existing above-grade structures, railway spurs, and bulkheads. The Site is bounded by 2nd Avenue to the southeast, 39th Street to the southwest, a recycling facility and 29th Street to the northeast and the Gowanus Bay to the northwest. The approximate location of the Site is shown on Figure 1.

The Site is generally flat, and it slopes slightly to the northwest towards Gowanus Bay. The nearest surface water body is Gowanus Bay, which is adjacent to the northwestern portion of the Site. Groundwater was encountered between 5 to 10 feet of the ground surface and has some tidal influence.

Tetra Tech conducted this Phase II ESA to further evaluate the subsurface conditions at the Site and within in the vicinity of RECs and environmental concerns. Historical Phase I ESAs and Phase II ESIs have been performed and are summarized below. The Limited Phase II investigation included sampling and analytical analyses of the soil, groundwater, soil vapor, and ambient air at locations across the Site.

1.1 Previous Investigations

Based on a review of prior reports for the Site, environmental investigations have been completed for the SBMT since at least October 1997. In March 1998, two 550-gallon gasoline underground storage tanks (USTs), four 4,000-gallon gasoline USTs, one 4,000-gallon diesel UST, one 550-gallon waste oil UST, one 1,000-gallon above-ground storage tank (AST) of unknown contents, and one 550-gallon fuel AST were removed from the property. Since impacted soils were detected through post-excavation sampling around the tanks and associated pumps, two spill cases (No. 97-14188 and 97-14190) were opened by New York State Department of Environmental Conservation (NYSDEC) on March 23, 1998. No additional USTs were located during a 1998 geophysical investigation performed at eight portions of the Site following removal of the tanks (TRC 2004). Impacted soils surrounding the former UST area were excavated and transported off-Site for disposal. 13 groundwater monitoring wells were installed around the former tank area and quarterly groundwater sampling was completed by URS Corporation (URS) for various wells between August 2003 and March 2005. Once groundwater contaminant concentrations were measured below the NYSDEC Groundwater Quality Criteria, a request for spill closure was submitted and approved for both cases in May 2005.

An April 2004 investigation by TRC included the advancement of 12 soil borings throughout the Site that revealed the presence of petroleum-related volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOC)s, and metals in subsurface soils between 0 and 10.5 feet below ground surface (bgs). Petroleum-related impacts were observed in four shallow and two subsurface soil samples collected from four borings in the vicinity of the former ASTs (TRC 2004).

A Phase I Environmental Site Assessment was performed by AECOM for the Site in May 2018. AECOM documented that due to the potential for orphan USTs and presence historic urban fill, subsurface contamination may exist at the SBMT. A brass cap within a concrete pad was observed behind the two temporary structures associated with the auto maintenance facility near 37th Street and Second Avenue. The Phase I report also recognized the history of reported spills and removal of the former USTs in 1999. It was suspected that four former 160,000-gallon ASTs existed in the location of the “N Shed” along the 39th Street Pier. Based on a review of historic aerial photographs, it was estimated that these tanks were active between 1940 and 1953. However, information regarding the decommissioning of the tanks and any impacted soil removal was not available (AECOM 2018).

AECOM also completed a Phase II Limited Site Investigation at SBMT in October 2018 that included the advancement of 15 soil borings to a maximum depth of 20 feet, collection of groundwater grab samples from eight borings, and an inspection of an underground vault located near the New York Department of Transportation (DOT) building in the northeast portion of the Site. Elevated SVOCs concentrations were detected above the New York State Department of Environmental Conservation’s (NYSDEC) soil cleanup objectives (SCOs) for Unrestricted, Residential, and Commercial Use in eight borings at the Site, but primarily in the location of the former ASTs within the “N Shed”. PCBs were also detected above the commercial SCOs in the vicinity of the DOT building. No VOCs were detected in any soil samples above the Unrestricted SCOs. SVOCs above the New York Technical and Operational Guidance Series (TOGS) 1.1.1 standards were detected in only one groundwater sample from a boring near the 39th Street parking lot.

A subsurface investigation was completed by TRC in July 2019 throughout the Site that included a geophysical survey, advancement of 20 soil borings, installation of eight temporary wells, and installation of eight soil vapor sample locations. The geophysical survey identified an additional UST in the southwestern portion of the Site near 39th Street. Information regarding the four former 160,000-gallon ASTs was not provided in this investigation report. According to the TRC Phase II Investigation Report, the following contaminants were identified for on-Site soils:

- Select VOCs were detected over the Unrestricted Use SCO and Commissioner’s Policy Table 2 and/or Table 3 SCLs, but below the Restricted Residential Use, Restricted Commercial Use, and Restricted Industrial Use SCOs;
- Select SVOCs and metals were detected above the Unrestricted Use, Restricted Residential Use, Commercial Use, and Industrial Use SCOs;
- Total PCBs were detected in one sample at a concentration above the Unrestricted Use SCO, but below the Restricted Residential Use, Commercial Use, and Industrial Use SCOs; and,
- Select pesticides were detected over the Unrestricted Use SCOs but below the Restricted Residential Use, Commercial Use, and Industrial Use SCOs.
- Impacts to adjacent subsurface materials were not observed downgradient of the UST.

2.0 DESCRIPTION OF PHASE II ESI FIELD ACTIVITIES

Tetra Tech completed a Phase II ESA between November 16 and December 9, 2021. The completed Phase II ESA field activities focused primarily on evaluating potential subsurface contamination identified from previous investigations. All sample locations are shown on Figure 2.

The Phase II ESA consisted of the following activities:

- The completion of a geophysical survey at each sample location,
- The completion of 40 soil borings to a depth of approximately 10 feet bgs,
- The installation of 11 temporary monitoring wells in the water table aquifer to depths of 6 to 10 feet bgs and collection of groundwater samples from the temporary monitoring wells,
- The collection of soil vapor samples from 13 locations below ground cover (concrete slabs, asphalt, etc.) but above the water table,
- The collection of one ambient air sampling from the Site, and
- Analytical analyses for parameters of environmental concern by a New York certified environmental laboratory.

2.1 Soil Boring Investigation

Tetra Tech completed a total of 40 soil borings at the Site between November 18 through December 6, 2021. The soil boring locations were chosen to further evaluate the subsurface conditions at the Site and within in the vicinity of RECs and environmental concerns as noted in Section 2.0 of this Report. The soil boring locations are shown on Figure 2.

Aquifer Drilling and Testing (ADT), a subsidiary of Cascade Environmental, of Mineola, NY was retained as a subcontractor by Tetra Tech for drilling services. Soil borings were completed using direct push drilling methods (i.e., Geoprobe™), utilizing a track-mounted direct drive rig. The top five feet of each boring were hand cleared using either hand auger or a Utilivac and air knife. From five feet bgs to completion, a continuous soil core was collected from ground surface to boring completion depth with a macro-core sampler lined by acetate sleeves. A description of the soils retained in each sample core was logged, according to the Universal Soil Classification System (USCS), by Tetra Tech's field personnel, and the soils were screened in the field for the presence of VOCs with a photoionization detector (PID). Upon completion, the borings were backfilled to near grade-surface with soil cuttings. Soil boring logs, including the PID readings are provided in Appendix A.

One soil sample from each boring was collected for laboratory analysis, from the two-foot interval exhibiting the greatest evidence of impact (e.g., elevated PID readings, odors, or staining). If no evidence of impacts was observed during soil boring advancement, a soil sample was collected from the interval immediately above the groundwater table. .

Soil samples for off-site laboratory analysis were transferred to certified-clean containers provided by the laboratory by personnel wearing clean, disposable nitrile gloves. The soil fraction for TCL VOCs was collected using an En Core® sampler before removing the soil from the core tube. Collected soils were then placed into a clean, disposable aluminum tin using a disposable plastic trowel, and mixed together to ensure a homogeneous sample representative of the sampling interval. The remaining analytical fractions were then transferred into the appropriate glass jars, labeled, recorded on a chain-of-custody, and placed into an ice-chilled cooler pending transport to the analytical laboratory. Samples for PFAS analysis were collected using NYSDEC PFAS protocols.

The soil samples were analyzed by an off-site laboratory certified under the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) using a standard 10-day turn-around-time. The soil samples were analyzed for the following:

- Target Compound List (TCL) VOCs using USEPA Method 8260;
- TCL semi-volatile organic compounds SVOCs using USEPA Method 8270;
- Polychlorinated biphenyls (PCBs) using USEPA Method 8082;
- TCL pesticides and herbicides using USEPA Methods 8081 and 8151, respectively;
- Target Analyte List (TAL) metals using USEPA Methods 6010 and 7471;
- Total cyanide by USEPA Method 9014;
- 1,4-dioxane by USEPA Method 8270 SIM, and;
- Per- and polyfluoroalkyl substances (PFAS) by USEPA Method 537.1.

2.2 Groundwater Investigation

A total of eleven temporary monitoring wells were installed at depths of 6 to 10 feet bgs. Groundwater samples were collected from eleven temporary well locations via low-flow purge by peristaltic pump. Groundwater samples were collected on December 6 and 7, 2021 at the Site. The groundwater samples were field screened for evidence of contamination. Low flow data sheets are provided in Appendix B. As noted on the data sheets, field indications of contamination (sheen observed in purge water bucket) were generally limited to temporary monitoring wells TT-SB-12GW and TT-SB-27GW. Groundwater sample locations are shown on Figure 2.

Due to the undeveloped nature of the temporary wells, only an initial and end reading was recorded on the purge log forms. A sample was collected once the readings began to stabilize (primarily turbidity). Readings were measured via a Horiba U-52 and a LaMotte Turbidity meter and samples were collected

using a peristaltic pump. The groundwater samples were collected and containerized in accordance with NYSDEC protocols. The sample containers were properly labeled and placed in a cooler for transport to Chemtech Laboratories. Standard chain-of-custody procedures were followed.

The ground water sample were submitted to a New York State Department of Health (NYSDOH) approved laboratory for the following analyses:

- VOCs by USEPA Method 8260;
- Per- and poly-fluoroalkyl (PFAS) compounds by Method 537.1 (21 Compound List);
- SVOCs by USEPA Method 8270;
- Pesticides by USEPA Method 8081A;
- PCBs by USEPA Method 8082;
- Herbicides by USEPA Method 8151;
- Total Metals (total and dissolved metals);
- 1,4-dioxane by USEPA Method 8270 SIM, and;

2.3 Soil Vapor Investigation

Tetra Tech completed a soil vapor investigation at various locations throughout the Site. These locations were selected to evaluate subsurface soil and soil vapor conditions for the presence of VOCs throughout the Site. One ambient air sample was also collected concurrent with the soil vapor samples to compare with the results of the soil vapor samples to assist in evaluating whether the compounds detected are airborne related verses contaminants detected below grade. Tetra Tech installed thirteen soil vapor sampling points in asphalt paved areas and inside two of the warehouses. Of the fourteen planned locations, only thirteen were sampled due to a high-water table at TT-SB-26SV. The soil vapor sample locations and the ambient air sample location are shown in Figure 2.

The soil vapor points were installed using direct push methods with a 4-inch diameter stainless steel screen to the target depth. This depth was approximately 1 to 2 feet above the groundwater, so the depths of the points ranged from 3 to 6 feet bgs, but were typically 5 feet bgs. The void around the screen was filled with #1 Morie sand and the upper portion sealed to the slab or asphalt using bentonite. The soil vapor and ambient air samples were collected in accordance with applicable NYSDEC protocols and the NYSDOH Soil Vapor Intrusion Guidance Document utilizing six-liter Summa Cannisters and an eight-hour sampling interval flow controller with a gauge and Swagelok® connection. Start and end pressures (vacuum) were recorded, and the flow controller gauges were monitored, and the valves closed before the canisters reached neutral or positive pressure. The sample containers were properly labeled and placed in a shipping box for transport to SGS. Standard chain-of-custody procedures were followed, and

the samples were analyzed for the TO-15 suite of VOCs. The samples were analyzed for a suite of approximately 68 VOCs utilizing United States Environmental Protection Agency (USEPA) method TO-15.

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3.0 DISCUSSION OF FINDINGS

This section presents a discussion of the findings of the sampling activities described above. Summaries of the detected compounds in the soil, groundwater, soil vapor, and ambient air samples collected during the Phase II ESA are presented in Tables 1 through 3. The complete laboratory analytical data packages are included in Appendix C.

3.1 Applicable Regulatory Standards

The regulatory standards and guidelines of the NYSDEC and NYSDOH were used to evaluate the results of the soil and groundwater analyses, as described below.

3.2.1 NYSDEC Soil Cleanup Objectives

Analytical results for soil samples were compared to the NYSDEC Industrial Use with Protection of Groundwater Overlay SCOs (6 NYCCR Tables 375-6.8(a) and (b)). Comparison of analytical results and regulatory standards evaluated whether the concentration of each analyzed substance exceeded the SCO as specified by the NYSDEC. According to the NYSDEC Soil Cleanup Guidance, soil concentrations that are higher than the SCOs are not necessarily a health or environmental concern. When an SCO is exceeded, the degree of public health or environmental concern depends on several factors, including the magnitude of the exceedance, the accuracy of the exposure estimates, other sources of exposure to the contaminant, and the strength and quality of the available toxicological information on the contaminant.

3.2.2 NYSDEC Ambient Water Quality Standards and Guidance Values

Analytical results for groundwater samples were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values. The standards and guidance values are ambient water quality values that were developed in order to protect New York's waters by the NYSDEC according to the authority of the Environmental Conservation Law and 6 NYCCR Parts 700-706, Water Quality Regulations. Regulatory values used for comparisons are found in Table 1 of the NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values, issued June 1998. Comparison of analytical results and regulatory standards evaluated whether the concentration of each analyzed substance exceeded the statewide standard or guidance value as specified by the NYSDEC.

3.2.3 NYDOH Soil Vapor Intrusion Guidance

Analytical results for the soil vapor samples were evaluated in accordance with the NYSDEC Guidance Document DER-10, the New York State Department of Health Guidance for Evaluation Soil Vapor Intrusion in the State of New York dated October 2006, as amended (Soil Vapor Intrusion Guidance Document).

3.2 Soil Boring Investigation Results

The soil boring investigation included screening in the field for indications of contamination, and analytical analyses of approximately 42 soil samples (including two duplicates) at 40 soil boring locations. Table 1 presents the soil data and identifies the constituents that exceeded the applicable SCO. Laboratory analytical data packages are provided in Appendix C.

No PCBs were detected in soil samples collected during the Phase II ESA. Ten VOCs, pesticides/herbicides, , metals and total cyanide were detected in samples across the Site, although not at concentrations that exceeded Industrial Use SCOs. 1,4-dioxane and PFAS were detected in one and four samples, respectively. Two SVOCs, benzo(a)pyrene and dibenzo(a,h)anthracene, were detected above Industrial Use SCOs in seven soil boring locations and eight soil samples (including 1 duplicate sample). These constituents were detected in sample locations TT-SB-05, TT-SB-07, TT-SB-12, TT-SB-13, , TT-SB-38, TT-SB-39, TT-SB-40, and S-DUP-02 (collected at TT-SB-24).

The results of the comparison of soil sample results to Industrial Use SCOs are as follows:

- Benzo(a)pyrene was detected in 33 of 42 samples, ranging from 22.9 to 9,330 ug/kg, and exceeded the NYSDEC Industrial Use SCO in eight (8) samples.
- Dibenzo(a,h)anthracene was detected in 24 of 42 samples, ranging from 19.2 to 1,530 ug/kg, and exceeded the NYSDEC Industrial Use SCO in one (1) sample.

3.3 Groundwater Investigation Results

The groundwater investigation included low-flow sampling from 11 temporary monitoring wells installed at the Site. Table 2 presents the groundwater data and identifies the constituents that exceeded the applicable NYSDEC Ambient Water Quality Standards and Guidance Values, and the complete analytical laboratory data packages are presented in Appendix C.

No pesticides/herbicides, or PCBS were detected in groundwater. One VOC (benzene) was detected, but not at concentrations above the NYSDEC Ambient Water Quality Standards and Guidance Values. 1,4 dioxane and PFAS were detected at several groundwater samples. SVOCs were detected in seven groundwater samples, and five SVOCs were detected at concentrations above the NYSDEC Ambient Water Quality Standards and Guidance Values at three locations. The SVOCs exceeding standards included benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. These SVOCs were detected above standards in sample locations TT-SB-13GW, TT-SB-30GW, and TT-SB-31GW. Metals were detected in all analyzed groundwater samples. Excluding commonly occurring metals such as aluminum, iron, calcium, sodium, and magnesium, six metals were detected at concentrations above the NYSDEC Ambient Water Quality Standards and Guidance Values at six locations. The metals exceeding standards included antimony, arsenic, beryllium, chromium, manganese, and nickel. These metals were detected above standards in sample locations TT-SB-02GW, TT-SB-06GW, TT-SB-20GW, TT-SB-23GW, TT-SB-27GW, and TT-SB-30GW.

The results of the comparison of groundwater sample results to NYSDEC Ambient Water Quality Standards and Guidance Values are as follows:

- Benzo(a)anthracene was detected in 2 of 12 samples, ranging from 0.47 to 0.76 ug/L, and exceeded its NYSDEC Ambient Water Quality Standards and Guidance Values in both samples.
- Benzo(b)fluoranthene was detected in 2 of 12 samples, ranging from 0.61 to 0.9 ug/L, and exceeded its NYSDEC Ambient Water Quality Standards and Guidance Values in both samples.
- Benzo(k)fluoranthene was detected in 2 of 12 samples, ranging from 0.21 to 0.38 ug/L, and exceeded its NYSDEC Ambient Water Quality Standards and Guidance Values in both samples.
- Chrysene was detected in 2 of 12 samples, ranging from 0.37 to 0.64 ug/L, and exceeded its NYSDEC Ambient Water Quality Standards and Guidance Values in both samples.
- Indeno(1,2,3-cd)Pyrene was detected in 3 of 12 samples, ranging from 0.57 to 1.1 ug/L, and exceeded its NYSDEC Ambient Water Quality Standards and Guidance Values in all three (3) samples.
- Antimony was detected in one sample, at a concentration of 6.2 ug/L, exceeding its NYSDEC Ambient Water Quality Standards and Guidance Values.
- Arsenic was detected in 9 of 11 samples, ranging from 3.1 to 66.6 ug/L, exceeding its NYSDEC Ambient Water Quality Standards and Guidance Values at one location.
- Beryllium was detected in 5 of 11 samples, ranging from 1.1 to 7.1 ug/L, exceeding its NYSDEC Ambient Water Quality Standards and Guidance Values at one location.
- Chromium was detected in 4 of 11 samples, ranging from 11.7 to 140 ug/L, exceeding its NYSDEC Ambient Water Quality Standards and Guidance Values at one location.
- Manganese was detected in all 11 samples, ranging from 20.5 to 10,700 ug/L, exceeding its NYSDEC Ambient Water Quality Standards and Guidance Values at six (6) locations.
- Nickel was detected in 5 of 11 samples, ranging from 11.2 to 206 ug/L, exceeding its NYSDEC Ambient Water Quality Standards and Guidance Values at one location.

3.4 Findings for Soil Vapor Intrusion Sampling

A total of 68 VOCs were analyzed for the TO-15 suite of parameters. Of those 68 analyzed VOCs, 46 were detected at 13 of the soil vapor sample locations. Results of the detected VOCs are shown in Table 3. All the soil vapor samples were collected in outdoor locations or within open air decommissioned warehouses. Therefore, none of the samples were compared to indoor air quality screening values.

There were several VOCs that were detected above ambient air concentrations at multiple locations:

- Benzene was detected at concentrations ranging from 0.7 to 45.4 ug/m³,
- Cyclohexane was detected at concentrations ranging from 0.27 to 372 ug/m³,
- Ethylbenzene was detected at concentrations ranging from 0.42 to 2.9 ug/m³,
- Heptane was detected at concentrations ranging from 0.49 to 422 ug/m³,
- Hexane was detected at concentrations ranging from 0.49 to 206 ug/m³,
- Methyl ethyl ketone was detected at concentrations ranging from 0.41 to 121 ug/m³,
- Toluene was detected at concentrations ranging from 1.5 to 51.6 ug/m³, and
- Xylenes (total) was detected at concentrations ranging from 0.91 to 136 ug/m³.

One ambient air sample was collected as part of the sampling event. There were 17 VOCs that were detected in the ambient air sample.

3.5 Summary of Findings

Tetra Tech performed a Phase II ESA consisting of a limited geophysical survey; the completion of 40 soil borings, installation of 11 temporary monitoring wells and 13 soil vapor intrusion sampling points, and sampling of the soil, groundwater, soil vapor and ambient air for parameters of environmental concern. The results of the Phase II ESI are as follows:

- No PCBs were detected in soil samples collected during the Phase II ESA. Ten VOCs, pesticides/herbicides, , metals and total cyanide were detected in samples across the Site, although not at concentrations that exceeded Industrial Use SCOs. 1,4-dioxane and PFAS were detected in one and four samples, respectively. Two SVOCs, benzo(a)pyrene and dibenzo(a,h)anthracene, were detected above Industrial Use SCOs in seven soil boring locations and eight soil samples (including 1 duplicate sample). These constituents were detected in sample locations TT-SB-05, TT-SB-07, TT-SB-12, TT-SB-13, , TT-SB-38, TT-SB-39, TT-SB-40, and S-DUP-02 (collected at TT-SB-24).
- No pesticides/herbicides, or PCBs were detected in groundwater. One VOC (benzene) was detected, but not at concentrations above the NYSDEC Ambient Water Quality Standards and Guidance Values. 1,4 dioxane and PFAS were detected at several groundwater samples. SVOCs were detected in seven groundwater samples, and five SVOCs were detected at concentrations

above the NYSDEC Ambient Water Quality Standards and Guidance Values at three locations. The SVOCs exceeding standards included benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. These SVOCs were detected above standards in sample locations TT-SB-13GW, TT-SB-30GW, and TT-SB-31GW. Metals were detected in all analyzed groundwater samples. Excluding commonly occurring metals such as aluminum, iron, calcium, sodium, and magnesium, six metals were detected at concentrations above the NYSDEC Ambient Water Quality Standards and Guidance Values at six locations. The metals exceeding standards included antimony, arsenic, beryllium, chromium, manganese, and nickel. These metals were detected above standards in sample locations TT-SB-02GW, TT-SB-06GW, TT-SB-20GW, TT-SB-23GW, TT-SB-27GW, and TT-SB-30GW.

- The soil vapor intrusion investigation indicated that 46 of the 68 analyzed VOCs were detected at 13 of the soil vapor intrusion sample locations. VOCs that were detected at elevated concentrations included benzene, cyclohexane, ethylbenzene, heptane, hexane, methyl ethyl ketone, toluene, and xylenes (total).

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4.0 CONCLUSIONS AND RECOMENDATIONS

Based on the results of Tetra Tech's Phase II ESA, Tetra Tech concludes that there are exceedances of the applicable regulatory standards for VOCs, SVOCs, and metals in Site soils, groundwater, and soil vapor. Therefore, this site should be considered for entry into the New York Brownfield Cleanup Program.

5.0 REFERENCES

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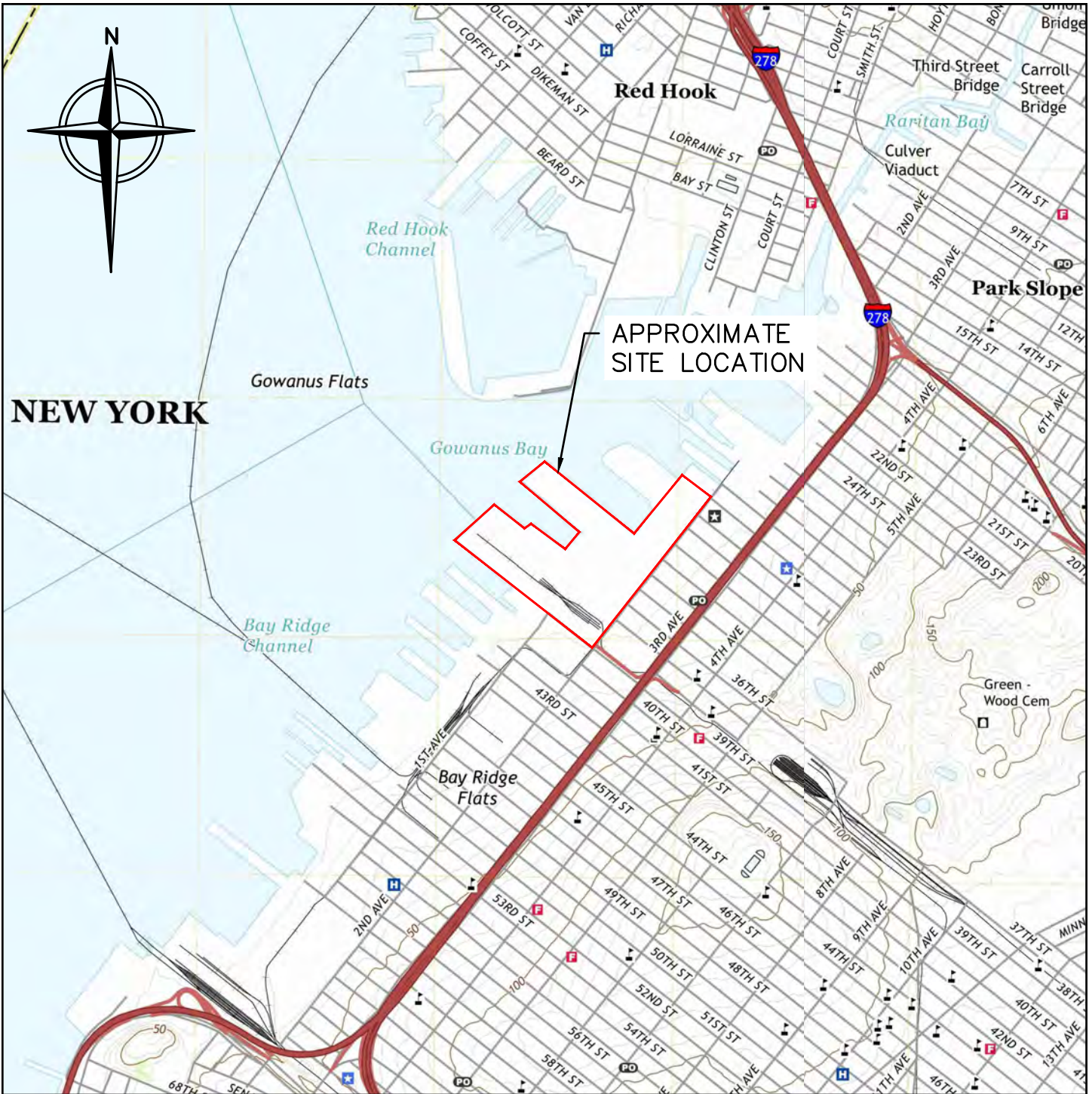
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New York State Department of Environmental Conservation (DEC): DER-10 Technical Guidance for Site investigation and Remediation. May 3, 2010. (<http://www.dec.ny.gov/regulations/67386.html>).

New York State Department of Health (NYSDOH): Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006, updated August 2015 and September 2013 (https://www.health.ny.gov/environmental/investigations/soil_gas/svi_guidance/).

FIGURES



TETRA TECH, INC.
 6 CENTURY DRIVE, SUITE 3
 PARSIPPANY, NJ 07054
 (973) 630-8000

FIGURE 1 - SITE LOCATION MAP
 SOUTH BROOKLYN MARINE
 TERMINAL
 2ND AVENUE
 BROOKLYN, NY 11232



EQUINOR WIND US LLC
 120 LONG RIDGE ROAD, SUITE 3E01
 STAMFORD, CT 06902

Tables

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-01 | TT-SB-02 | TT-SB-03 | TT-SB-04 | TT-SB-05 | S DUP-01 | TT-SB-06 | TT-SB-07 |
|---|-----------------------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Sample Depth in feet bgs | | | 5.5-6.0 | 7.0-9.0 | 7.0-9.0 | 7.5-9.5 | 6.5-8.5 | | 5.0-7.0 | 6.0-8.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/18/2021 | 11/18/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/22/2021 | 11/22/2021 |
| Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| Acetone | 500000 | 1000000 | ND (4.1) | ND (4.6) | ND (4.0) | 5.5 J | 18.8 | 20.7 | 10.2 | 8.9 J |
| Benzene | 44000 | 89000 | ND (0.46) | ND (0.51) | ND (0.44) | ND (0.42) | ND (0.49) | ND (0.42) | ND (0.39) | 3.8 |
| Bromochloromethane | - | - | ND (0.56) | ND (0.63) | ND (0.54) | ND (0.52) | ND (0.60) | ND (0.52) | ND (0.48) | ND (0.60) |
| Bromodichloromethane | - | - | ND (0.43) | ND (0.48) | ND (0.41) | ND (0.40) | ND (0.46) | ND (0.40) | ND (0.37) | ND (0.46) |
| Bromoform | - | - | ND (1.4) ^a | ND (1.5) ^a | ND (1.3) ^a | ND (1.3) | ND (1.5) | ND (1.3) | ND (1.2) | ND (1.4) |
| Bromomethane | - | - | ND (0.76) | ND (0.85) | ND (0.73) | ND (0.71) ^a | ND (0.82) | ND (0.71) | ND (0.65) | ND (0.81) |
| 2-Butanone (MEK) | 500000 | 1000000 | ND (2.4) | ND (2.7) | ND (2.3) | ND (2.3) | ND (2.6) | ND (2.3) | ND (2.1) | ND (2.6) |
| Carbon disulfide | - | - | ND (0.54) | ND (0.60) | ND (0.51) | ND (0.50) | 0.76 J | 1.2 J | ND (0.46) | 0.68 J |
| Carbon tetrachloride | 22000 | 44000 | ND (0.62) | ND (0.69) | ND (0.59) | ND (0.57) | ND (0.66) | ND (0.58) | ND (0.53) | ND (0.66) |
| Chlorobenzene | 500000 | 1000000 | ND (0.46) | ND (0.51) | ND (0.44) | ND (0.43) | ND (0.49) | ND (0.43) | ND (0.39) | ND (0.49) |
| Chloroethane | - | - | ND (0.59) | ND (0.66) | ND (0.57) | ND (0.55) | ND (0.63) ^a | ND (0.55) ^a | ND (0.51) ^a | ND (0.63) ^a |
| Chloroform | 350000 | 700000 | ND (0.52) | ND (0.58) | ND (0.50) | ND (0.48) | ND (0.56) | ND (0.48) | ND (0.44) | ND (0.55) |
| Chloromethane | - | - | ND (2.0) | ND (2.2) | ND (1.9) | ND (1.8) | ND (2.1) | ND (1.8) | ND (1.7) | ND (2.1) |
| Cyclohexane | - | - | ND (0.66) | ND (0.73) | ND (0.63) | ND (0.61) | ND (0.70) | ND (0.61) | ND (0.56) | ND (0.70) |
| 1,2-Dibromo-3-chloropropane | - | - | ND (0.69) | ND (0.78) | ND (0.66) | ND (0.64) | ND (0.74) | ND (0.65) | ND (0.59) | ND (0.74) |
| Dibromochloromethane | - | - | ND (0.56) | ND (0.63) | ND (0.54) | ND (0.52) | ND (0.60) | ND (0.52) | ND (0.48) | ND (0.60) |
| 1,2-Dibromoethane | - | - | ND (0.42) | ND (0.47) | ND (0.40) | ND (0.39) | ND (0.45) | ND (0.39) | ND (0.36) | ND (0.45) |
| 1,2-Dichlorobenzene | 500000 | 1000000 | ND (0.55) | ND (0.61) | ND (0.52) | ND (0.51) | ND (0.59) ^b | ND (0.51) ^b | ND (0.47) ^b | ND (0.58) ^b |
| 1,3-Dichlorobenzene | 280000 | 560000 | ND (0.50) | ND (0.55) | ND (0.47) | ND (0.46) | ND (0.53) ^b | ND (0.46) ^b | ND (0.42) ^b | ND (0.53) ^b |
| 1,4-Dichlorobenzene | 130000 | 250000 | ND (0.49) | ND (0.55) | ND (0.47) | ND (0.46) | ND (0.53) | ND (0.46) | ND (0.42) | ND (0.53) |
| Dichlorodifluoromethane | - | - | ND (0.73) | ND (0.81) | ND (0.70) | ND (0.67) | ND (0.78) | ND (0.68) | ND (0.62) | ND (0.77) |
| 1,1-Dichloroethane | 240000 | 480000 | ND (0.50) | ND (0.55) | ND (0.47) | ND (0.46) | ND (0.53) | ND (0.46) | ND (0.42) | ND (0.53) |
| 1,2-Dichloroethane | 30000 | 60000 | ND (0.47) | ND (0.53) | ND (0.45) | ND (0.44) | ND (0.50) | ND (0.44) | ND (0.40) | ND (0.50) |
| 1,1-Dichloropropane | 500000 | 1000000 | ND (0.66) | ND (0.73) | ND (0.63) | ND (0.61) | ND (0.70) | ND (0.61) | ND (0.56) | ND (0.70) |
| cis-1,2-Dichloroethene | 500000 | 1000000 | ND (0.84) | ND (0.94) | ND (0.80) | ND (0.78) | ND (0.90) | ND (0.78) | ND (0.72) | ND (0.89) |
| trans-1,2-Dichloroethene | 500000 | 1000000 | ND (0.61) | ND (0.68) | ND (0.58) | ND (0.57) | ND (0.66) | ND (0.57) | ND (0.52) | ND (0.65) |
| 1,2-Dichloropropane | - | - | ND (0.47) | ND (0.53) | ND (0.45) | ND (0.44) | ND (0.51) | ND (0.44) | ND (0.41) | ND (0.50) |
| cis-1,3-Dichloropropene | - | - | ND (0.48) | ND (0.53) | ND (0.45) | ND (0.44) | ND (0.51) | ND (0.44) | ND (0.41) | ND (0.51) |
| trans-1,3-Dichloropropene | - | - | ND (0.46) | ND (0.51) | ND (0.44) | ND (0.42) | ND (0.49) | ND (0.43) | ND (0.39) | ND (0.49) |
| Ethylbenzene | 390000 | 780000 | ND (0.45) | ND (0.51) | ND (0.43) | ND (0.42) | ND (0.49) | ND (0.42) | ND (0.39) | ND (0.48) |
| Freon 113 | - | - | ND (2.7) | ND (3.0) | ND (2.6) | ND (2.5) | ND (2.9) | ND (2.5) | ND (2.3) | ND (2.8) |
| 2-Hexanone | - | - | ND (2.1) | ND (2.4) | ND (2.0) | ND (2.0) | ND (2.3) | ND (2.0) | ND (1.8) | ND (2.3) |
| Isopropylbenzene | - | - | ND (1.4) | ND (1.6) | ND (1.4) | ND (1.3) | ND (1.5) | ND (1.3) | ND (1.2) | ND (1.5) |
| Methyl Acetate | - | - | ND (1.4) | ND (1.6) | ND (1.3) | ND (1.3) | ND (1.5) | ND (1.3) | ND (1.2) | ND (1.5) |
| Methylcyclohexane | - | - | ND (0.88) | ND (0.98) | ND (0.84) | ND (0.81) | ND (0.94) | ND (0.82) | ND (0.75) | ND (0.93) |
| Methyl Tert Butyl Ether | 500000 | 1000000 | ND (0.47) | ND (0.52) | ND (0.45) | ND (0.43) | ND (0.50) | ND (0.44) | ND (0.40) | ND (0.50) |
| 4-Methyl-2-pentanone(MIBK) | - | - | ND (2.3) | ND (2.5) | ND (2.2) | ND (2.1) | ND (2.4) | ND (2.1) | ND (1.9) | ND (2.4) |
| Methylene chloride | 500000 | 1000000 | ND (2.6) | ND (2.9) | ND (2.5) | ND (2.4) | ND (2.8) | ND (2.4) | ND (2.2) | ND (2.8) |
| Styrene | - | - | ND (0.40) | ND (0.45) | ND (0.38) | ND (0.37) | ND (0.43) | ND (0.38) | ND (0.34) | ND (0.43) |
| 1,1,2,2-Tetrachloroethane | - | - | ND (0.60) | ND (0.67) | ND (0.57) | ND (0.56) | ND (0.64) | ND (0.56) | ND (0.51) | ND (0.64) |
| Tetrachloroethene | 150000 | 300000 | ND (0.58) | ND (0.65) | ND (0.56) | ND (0.54) | ND (0.62) | ND (0.54) | ND (0.50) | ND (0.62) |
| Toluene | 500000 | 1000000 | ND (0.53) | ND (0.59) | ND (0.50) | ND (0.49) | ND (0.56) | ND (0.49) | ND (0.45) | 1.5 |
| 1,2,3-Trichlorobenzene | - | - | ND (2.5) | ND (2.8) | ND (2.4) | ND (2.3) | ND (2.7) | ND (2.3) | ND (2.1) | ND (2.7) |
| 1,2,4-Trichlorobenzene | - | - | ND (2.5) | ND (2.8) | ND (2.4) | ND (2.3) | ND (2.7) | ND (2.3) | ND (2.1) | ND (2.7) |
| 1,1,1-Trichloroethane | 500000 | 1000000 | ND (0.48) | ND (0.54) | ND (0.46) | ND (0.45) | ND (0.52) | ND (0.45) | ND (0.41) | ND (0.51) |
| 1,1,2-Trichloroethane | - | - | ND (0.55) | ND (0.62) | ND (0.53) | ND (0.51) | ND (0.59) | ND (0.52) | ND (0.47) | ND (0.59) |
| Trichloroethene | 200000 | 400000 | ND (0.76) | ND (0.85) | ND (0.73) | ND (0.71) | ND (0.82) | ND (0.71) | ND (0.65) | ND (0.81) |
| Trichlorofluoromethane | - | - | ND (0.68) | ND (0.76) | ND (0.65) | ND (0.63) | ND (0.73) ^c | ND (0.64) ^c | ND (0.59) ^c | ND (0.73) ^c |
| Vinyl chloride | 13000 | 27000 | ND (0.48) | ND (0.54) | ND (0.46) | ND (0.45) | ND (0.52) | ND (0.45) | ND (0.41) | ND (0.51) |
| m,p-Xylene | - | - | ND (0.90) | ND (1.0) | ND (0.86) | ND (0.83) | ND (0.96) | ND (0.84) | ND (0.77) | ND (0.95) |
| o-Xylene | - | - | ND (0.46) | ND (0.51) | ND (0.44) | ND (0.42) | ND (0.49) | 0.51 J | ND (0.39) | ND (0.49) |
| Xylene (total) | 500000 | 1000000 | ND (0.46) | ND (0.51) | ND (0.44) | ND (0.42) | ND (0.49) | 0.51 J | ND (0.39) | ND (0.49) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-01 | TT-SB-02 | TT-SB-03 | TT-SB-04 | TT-SB-05 | S DUP-01 | TT-SB-06 | TT-SB-07 |
|--|-----------------------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample Depth in feet bgs | | | 5.5-6.0 | 7.0-9.0 | 7.0-9.0 | 7.5-9.5 | 6.5-8.5 | | 5.0-7.0 | 6.0-8.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/18/2021 | 11/18/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/22/2021 | 11/22/2021 |
| PFAS Compounds (ug/kg) | | | | | | | | | | |
| Perfluorobutanoic acid | - | - | ND (0.43) | ND (0.41) | ND (0.40) | ND (0.39) | ND (0.49) | ND (0.44) | ND (0.40) | ND (0.42) |
| Perfluoropentanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorohexanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluoroheptanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorooctanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorononanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorodecanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluoroundecanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorododecanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorotridecanoic acid | - | - | ND (0.30) | ND (0.29) | ND (0.28) | ND (0.27) | ND (0.34) | ND (0.31) | ND (0.28) | ND (0.29) |
| Perfluorotetradecanoic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorobutanesulfonic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorohexanesulfonic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluoroheptanesulfonic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorooctanesulfonic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Perfluorodecanesulfonic acid | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| PFOSA | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| MeFOSAA | - | - | ND (0.56) | ND (0.54) | ND (0.53) | ND (0.51) | ND (0.64) | ND (0.58) | ND (0.53) | ND (0.55) |
| EtFOSAA | - | - | ND (0.56) | ND (0.54) | ND (0.53) | ND (0.51) | ND (0.64) | ND (0.58) | ND (0.53) | ND (0.55) |
| 6:2 Fluorotelomer sulfonate | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| 8:2 Fluorotelomer sulfonate | - | - | ND (0.28) | ND (0.27) | ND (0.26) | ND (0.25) | ND (0.32) | ND (0.29) | ND (0.27) | ND (0.28) |
| Semi Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| 2-Chlorophenol | - | - | ND (18) | ND (18) | ND (17) | ND (17) | ND (21) | ND (18) | ND (18) | ND (19) |
| 4-Chloro-3-methyl phenol | - | - | ND (22) | ND (22) | ND (21) | ND (21) | ND (26) | ND (23) | ND (22) | ND (23) |
| 2,4-Dichlorophenol | - | - | ND (31) | ND (31) | ND (29) | ND (29) | ND (36) | ND (31) | ND (31) | ND (32) |
| 2,4-Dimethylphenol | - | - | ND (65) | ND (65) | ND (61) | ND (60) | ND (75) | ND (65) | ND (65) | ND (67) |
| 2,4-Dinitrophenol | - | - | ND (140) ^a | ND (140) ^b | ND (130) ^a | ND (130) ^a | ND (160) ^a | ND (140) ^a | ND (140) ^a | ND (140) ^a |
| 4,6-Dinitro-o-cresol | - | - | ND (39) ^a | ND (39) ^b | ND (37) ^a | ND (36) ^a | ND (45) ^a | ND (39) ^a | ND (39) ^a | ND (40) ^a |
| 2-Methylphenol | - | - | ND (23) | ND (23) | ND (22) | ND (22) | ND (27) | ND (23) | ND (23) | ND (24) |
| 3&4-Methylphenol | - | - | ND (30) | ND (30) | ND (28) | ND (28) | ND (35) | ND (30) | ND (30) | ND (31) |
| 2-Nitrophenol | - | - | ND (24) ^a | ND (24) ^b | ND (23) | ND (22) | ND (28) ^a | ND (24) ^a | ND (24) ^a | ND (25) ^a |
| 4-Nitrophenol | - | - | ND (97) | ND (97) | ND (92) | ND (90) | ND (110) | ND (98) | ND (97) | ND (100) |
| Pentachlorophenol | 6700 | 55000 | ND (34) | ND (34) | ND (32) | ND (32) | ND (40) | ND (35) | ND (34) | ND (35) |
| Phenol | - | - | ND (19) | ND (19) | ND (18) | ND (18) | ND (22) | ND (19) | ND (19) | ND (20) |
| 2,3,4,6-Tetrachlorophenol | - | - | ND (24) | ND (24) ^b | ND (23) | ND (22) | ND (28) | ND (24) | ND (24) | ND (25) |
| 2,4,5-Trichlorophenol | - | - | ND (27) | ND (27) | ND (26) | ND (25) | ND (32) | ND (28) | ND (27) | ND (28) |
| 2,4,6-Trichlorophenol | - | - | ND (22) | ND (22) | ND (21) | ND (20) | ND (25) | ND (22) | ND (22) | ND (22) |
| Acenaphthene | 500000 | 1000000 | 14.8 J | 31.0 J | ND (12) | ND (12) | 237 | 144 | ND (13) | 307 |
| Acenaphthylene | 500000 | 1000000 | 28.5 J | ND (19) | ND (17) | ND (17) | 178 | 157 | ND (18) | 203 |
| Acetophenone | - | - | ND (7.8) | ND (7.9) ^b | ND (7.4) | ND (7.2) | ND (9.1) ^a | ND (7.9) ^a | ND (7.8) ^a | 23.5 J ^d |
| Anthracene | 500000 | 1000000 | 45.4 | 88.1 | ND (21) | ND (21) | 528 | 360 | ND (22) | 790 |
| Atrazine | - | - | ND (16) | ND (16) ^c | ND (15) ^a | ND (14) ^a | ND (18) ^a | ND (16) ^a | ND (16) ^a | ND (16) ^a |
| Benzo(a)anthracene | 5600 | 11000 | 127 | 230 | 14.8 J | 27.6 J | 1270 | 861 | 33.5 J | 2120 |
| Benzo(a)pyrene | 1000 | 1100 | 121 | 192 | ND (16) | 25.0 J | 1160 | 746 | 40 | 1850 |
| Benzo(b)fluoranthene | 5600 | 11000 | 172 | 250 | 15.2 J | 36.7 | 1370 | 942 | 44.6 | 2370 |
| Benzo(g,h,i)perylene | 500000 | 1000000 | 88.9 | 106 | ND (17) | ND (17) | 690 | 432 | 22.2 J | 1050 |
| Benzo(k)fluoranthene | 56000 | 110000 | 59 | 98.3 | ND (16) | ND (16) | 571 | 387 | 20.1 J | 902 |
| 4-Bromophenyl phenyl ether | - | - | ND (14) | ND (14) | ND (13) | ND (13) | ND (16) | ND (14) | ND (14) | ND (14) |
| Butyl benzyl phthalate | - | - | ND (8.9) | ND (8.9) | ND (8.4) | ND (8.2) | ND (10) | ND (9.0) | ND (8.9) | ND (9.1) |
| 1,1'-Biphenyl | - | - | 69.4 J | ND (5.0) | ND (4.7) | ND (4.6) | 28.8 J | 16.1 J | ND (5.0) | 37.9 J |
| Benzaldehyde | - | - | ND (9.0) | ND (9.1) | ND (8.5) | ND (8.3) | ND (10) | ND (9.1) | ND (9.0) | ND (9.3) |
| 2-Chloronaphthalene | - | - | ND (8.7) | ND (8.7) | ND (8.2) | ND (8.0) | ND (10) | ND (8.7) | ND (8.7) | ND (8.9) |
| 4-Chloroaniline | - | - | ND (13) | ND (13) | ND (12) | ND (12) | ND (15) | ND (13) | ND (13) | ND (13) |
| Carbazole | - | - | 20.4 J | 28.5 J | ND (5.0) | ND (4.9) | 158 | 108 | ND (5.3) | 273 |
| Caprolactam | - | - | ND (14) | ND (14) | ND (14) | ND (13) | ND (17) | ND (15) | ND (14) | ND (15) |
| Chrysene | 56000 | 110000 | 157 | 230 | 12.3 J | 27.7 J | 1430 | 926 | 30.8 J | 2330 |
| bis(2-Chloroethoxy)methane | - | - | ND (7.8) | ND (7.8) | ND (7.4) | ND (7.2) | ND (9.0) | ND (7.9) | ND (7.8) | ND (8.0) |
| bis(2-Chloroethyl)ether | - | - | ND (16) | ND (16) | ND (15) | ND (15) | ND (18) | ND (16) | ND (16) | ND (16) |
| 2,2'-Oxybis(1-chloropropane) | - | - | ND (13) | ND (13) | ND (12) | ND (12) | ND (15) | ND (13) | ND (13) | ND (13) |
| 4-Chlorophenyl phenyl ether | - | - | ND (12) | ND (12) | ND (11) | ND (11) | ND (14) | ND (12) | ND (12) | ND (12) |
| 2,4-Dinitrotoluene | - | - | ND (11) | ND (11) ^b | ND (11) ^a | ND (10) ^a | ND (13) ^a | ND (11) ^a | ND (11) ^a | ND (12) ^a |

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Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-01 | TT-SB-02 | TT-SB-03 | TT-SB-04 | TT-SB-05 | S DUP-01 | TT-SB-06 | TT-SB-07 |
|--|----------------------------------|----------------------------------|------------|-----------------------|------------|------------|----------------------|-----------------------|-----------------------|-----------------------|
| Sample Depth in feet bgs | | | 5.5-6.0 | 7.0-9.0 | 7.0-9.0 | 7.5-9.5 | 6.5-8.5 | | 5.0-7.0 | 6.0-8.0 |
| Sampling Date | w/CP-51 (10/10)(6 NYCRR 375-6 | w/CP-51 (10/10)(6 NYCRR 375-6 | 11/18/2021 | 11/18/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/22/2021 | 11/22/2021 |
| 2,6-Dinitrotoluene | - | - | ND (18) | ND (18) | ND (17) | ND (17) | ND (21) | ND (18) | ND (18) | ND (19) |
| 3,3'-Dichlorobenzidine | - | - | ND (30) | ND (30) | ND (29) | ND (28) | ND (35) | ND (31) | ND (30) | ND (31) |
| 1,4-Dioxane | - | - | ND (24) | ND (24) | ND (23) | ND (22) | ND (28) | ND (24) | ND (24) | ND (25) |
| Dibenzo(a,h)anthracene | 560 | 1100 | 24.3 J | 35.4 J | ND (15) | ND (15) | 204 | 139 | ND (16) | 338 |
| Dibenzofuran | 350000 | 1000000 | 25.0 J | 16.2 J | ND (14) | ND (14) | 169 | 87.5 | ND (15) | 223 |
| Di-n-butyl phthalate | - | - | ND (5.9) | ND (6.0) | ND (5.6) | ND (5.5) | ND (6.9) | ND (6.0) | ND (5.9) | ND (6.1) |
| Di-n-octyl phthalate | - | - | ND (9.1) | ND (9.1) | ND (8.6) | ND (8.4) | ND (11) | ND (9.1) | ND (9.1) | ND (9.3) |
| Diethyl phthalate | - | - | ND (7.8) | ND (7.8) | ND (7.3) | ND (7.2) | ND (9.0) | ND (7.8) | ND (7.8) | ND (8.0) |
| Dimethyl phthalate | - | - | ND (6.5) | ND (6.5) | ND (6.1) | ND (6.0) | ND (7.5) | ND (6.5) | ND (6.5) | ND (6.7) |
| bis(2-Ethylhexyl)phthalate | - | - | 139 | 99.5 | ND (8.0) | 34.5 J | 173 | 1170 | ND (8.5) | 173 |
| Fluoranthene | 500000 | 1000000 | 216 | 463 | 19.6 J | 47.2 | 2600 | 1790 | 52.6 | 3770 |
| Fluorene | 500000 | 1000000 | 21.3 J | 39.4 | ND (16) | ND (15) | 269 | 175 | ND (17) | 243 |
| Hexachlorobenzene | 6000 | 12000 | ND (9.2) | ND (9.2) | ND (8.7) | ND (8.5) | ND (11) | ND (9.3) | ND (9.2) | ND (9.5) |
| Hexachlorobutadiene | - | - | ND (15) | ND (15) ^b | ND (14) | ND (14) | ND (17) ^a | ND (15) ^a | ND (15) ^a | ND (15) ^a |
| Hexachlorocyclopentadiene | - | - | ND (14) | ND (15) | ND (14) | ND (13) | ND (17) | ND (15) | ND (14) | ND (15) |
| Hexachloroethane | - | - | ND (18) | ND (18) | ND (17) | ND (17) | ND (21) | ND (18) | ND (18) | ND (19) |
| Indeno(1,2,3-cd)pyrene | 5600 | 11000 | 119 | 127 | ND (16) | 19.0 J | 881 | 558 | 28.7 J | 1350 |
| Isophorone | - | - | ND (7.8) | ND (7.8) | ND (7.4) | ND (7.2) | ND (9.0) | ND (7.9) | ND (7.8) | ND (8.0) |
| 2-Methylnaphthalene | - | - | 298 | 13.4 J | ND (7.8) | ND (7.6) | 76.1 | 40.5 | ND (8.2) | 139 |
| 2-Nitroaniline | - | - | ND (8.6) | ND (8.6) ^b | ND (8.1) | ND (7.9) | ND (10) ^a | ND (8.7) ^a | ND (8.6) ^a | ND (8.8) ^a |
| 3-Nitroaniline | - | - | ND (9.1) | ND (9.1) | ND (8.6) | ND (8.4) | ND (11) | ND (9.2) | ND (9.1) | ND (9.4) |
| 4-Nitroaniline | - | - | ND (9.4) | ND (9.5) | ND (8.9) | ND (8.7) | ND (11) | ND (9.5) | ND (9.4) | ND (9.7) |
| Naphthalene | 500000 | 1000000 | 160 | 10.6 J | ND (9.7) | ND (9.5) | 201 | 93.3 | ND (10) | 245 |
| Nitrobenzene | - | - | ND (14) | ND (14) | ND (13) | ND (13) | ND (14) | ND (14) | ND (14) | ND (14) |
| N-Nitroso-di-n-propylamine | - | - | ND (11) | ND (11) ^b | ND (9.9) | ND (9.7) | ND (12) ^a | ND (11) ^a | ND (11) ^a | ND (11) ^a |
| N-Nitrosodiphenylamine | - | - | ND (13) | ND (13) | ND (13) | ND (12) | ND (15) | ND (13) | ND (13) | ND (14) |
| Phenanthrene | 500000 | 1000000 | 181 | 356 | 15.2 J | 26.1 J | 1720 | 1190 | 17.2 J | 2680 |
| Pyrene | 500000 | 1000000 | 224 | 446 | 22.6 J | 51.9 | 2790 | 1850 | 59.8 | 3930 |
| 1,2,4,5-Tetrachlorobenzene | - | - | ND (9.2) | ND (9.3) | ND (8.7) | ND (8.6) | ND (11) | ND (9.3) | ND (9.2) | ND (9.5) |
| 1,4 Dioxane (ug/kg) | | | | | | | | | | |
| 1,4-Dioxane | - | - | ND (1.8) | ND (1.8) | ND (1.7) | ND (1.7) | ND (2.1) | ND (1.8) | ND (1.8) | ND (1.9) |
| Pesticides and herbicides (ug/kg) | | | | | | | | | | |
| Aldrin | 680 | 1400 | ND (0.55) | ND (0.61) | ND (0.56) | ND (0.58) | ND (0.70) | 1.5 ^o | ND (0.57) | 2.1 ^o |
| alpha-BHC | 3400 | 6800 | ND (0.54) | ND (0.61) | ND (0.55) | ND (0.57) | ND (0.69) | ND (0.62) | ND (0.57) | 1.1 ^o |
| beta-BHC | 3000 | 14000 | ND (0.60) | ND (0.67) | ND (0.61) | ND (0.63) | ND (0.76) | ND (0.69) | ND (0.63) | ND (0.63) |
| delta-BHC | 500000 | 1000000 | ND (0.64) | ND (0.72) | ND (0.65) | ND (0.67) | ND (0.81) | ND (0.73) | ND (0.67) | ND (0.67) |
| gamma-BHC (Lindane) | 9200 | 23000 | ND (0.49) | ND (0.55) | ND (0.50) | ND (0.52) | 2.8 ^o | 7.9 ^o | ND (0.51) | 9.5 ^o |
| alpha-Chlordane | 24000 | 47000 | ND (0.54) | ND (0.60) | ND (0.54) | ND (0.56) | ND (0.68) | 6.9 | ND (0.56) | 21.3 |
| gamma-Chlordane | - | - | ND (0.30) | ND (0.34) | ND (0.31) | ND (0.32) | 2.5 ^o | 4.9 ^o | ND (0.32) | 23.5 |
| Dieldrin | 1400 | 28000 | ND (0.46) | ND (0.51) | ND (0.46) | ND (0.48) | ND (0.58) | 1.6 ^o | ND (0.48) | 1.0 ^o |
| 4,4'-DDD | 92000 | 180000 | ND (0.61) | ND (0.68) | ND (0.62) | 1.4 | 20.2 | 29.5 | ND (0.64) | 5.7 ^o |
| 4,4'-DDE | 62000 | 120000 | 1.5 | ND (0.65) | ND (0.59) | 0.9 | 5.8 | 9 | ND (0.61) | 4.1 |
| 4,4'-DDT | 47000 | 94000 | ND (0.59) | ND (0.66) | ND (0.60) | 7.3 | 2.2 ^o | 4.5 ^o | ND (0.62) | 4.2 ^o |
| Endrin | 89000 | 410000 | ND (0.52) | ND (0.58) | ND (0.52) | ND (0.54) | ND (0.66) | 0.92 ^o | ND (0.54) | ND (0.54) |
| Endosulfan sulfate | 200000 | 920000 | ND (0.52) | ND (0.58) | ND (0.53) | ND (0.55) | ND (0.66) | ND (0.59) | ND (0.54) | ND (0.54) |
| Endrin aldehyde | - | - | ND (0.38) | ND (0.42) | ND (0.38) | ND (0.40) | ND (0.48) | ND (0.43) | ND (0.39) | ND (0.40) |
| Endosulfan-I | 200000 | 920000 | ND (0.38) | ND (0.43) | ND (0.39) | ND (0.40) | ND (0.49) | ND (0.44) | ND (0.40) | ND (0.40) |
| Endosulfan-II | 200000 | 920000 | ND (0.42) | ND (0.46) | ND (0.42) | ND (0.44) | ND (0.53) | 4.8 | ND (0.43) | ND (0.43) |
| Heptachlor | 15000 | 29000 | ND (0.58) | ND (0.64) | ND (0.58) | ND (0.60) | ND (0.73) | ND (0.66) | ND (0.60) | ND (0.60) |
| Heptachlor epoxide | - | - | ND (0.47) | ND (0.52) | ND (0.47) | ND (0.49) | ND (0.59) | ND (0.53) | ND (0.49) | 1.5 |
| Methoxychlor | - | - | ND (0.53) | ND (0.59) | ND (0.54) | ND (0.56) | ND (0.67) | ND (0.61) | ND (0.55) | ND (0.55) |
| Endrin ketone | - | - | ND (0.48) | ND (0.54) | ND (0.49) | ND (0.51) | ND (0.61) | ND (0.55) | ND (0.50) | 3.3 ^o |
| Toxaphene | - | - | ND (16) | ND (17) | ND (16) | ND (16) | ND (20) | ND (18) | ND (16) | ND (16) |
| 2,4-D | - | - | ND (7.9) | ND (8.3) | ND (7.8) | ND (7.8) | ND (36) | ND (31) | ND (8.1) | ND (33) |
| 2,4,5-TP (Silvex) | 500000 | 1000000 | ND (2.0) | ND (2.1) | ND (2.0) | ND (2.0) | ND (9.2) | ND (7.8) | ND (2.1) | ND (8.4) |
| 2,4,5-T | - | - | 3.6 | ND (1.8) | ND (1.7) | ND (1.7) | ND (8.1) | ND (6.9) | ND (1.8) ^a | ND (7.4) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-01 | TT-SB-02 | TT-SB-03 | TT-SB-04 | TT-SB-05 | S DUP-01 | TT-SB-06 | TT-SB-07 |
|--------------------------|-----------------------------------|-----------------------------------|--------------------|----------------------|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| Sample Depth in feet bgs | | | 5.5-6.0 | 7.0-9.0 | 7.0-9.0 | 7.5-9.5 | 6.5-8.5 | | 5.0-7.0 | 6.0-8.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/18/2021 | 11/18/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/19/2021 | 11/22/2021 | 11/22/2021 |
| PCBs (ug/kg) | | | | | | | | | | |
| Aroclor 1016 | 1000 | 25000 | ND (16) | ND (17) ^a | ND (16) ^a | ND (16) ^a | ND (20) | ND (18) | ND (16) | ND (16) |
| Aroclor 1221 | 1000 | 25000 | ND (21) | ND (23) | ND (21) | ND (22) | ND (26) | ND (24) | ND (22) | ND (22) |
| Aroclor 1232 | 1000 | 25000 | ND (21) | ND (24) | ND (22) | ND (22) | ND (27) | ND (24) | ND (22) | ND (22) |
| Aroclor 1242 | 1000 | 25000 | ND (14) | ND (15) | ND (14) | ND (14) | ND (17) | ND (16) | ND (14) | ND (14) |
| Aroclor 1248 | 1000 | 25000 | ND (30) | ND (33) | ND (30) | ND (31) | ND (38) | ND (34) | ND (31) | ND (31) |
| Aroclor 1254 | 1000 | 25000 | ND (18) | ND (20) | ND (18) | ND (19) | ND (23) | ND (20) | ND (19) | ND (19) |
| Aroclor 1260 | 1000 | 25000 | ND (14) | ND (14) ^a | ND (14) ^a | ND (15) ^a | ND (18) | ND (16) | ND (15) | ND (15) |
| Aroclor 1268 | 1000 | 25000 | ND (14) | ND (16) | ND (14) | ND (15) | ND (18) | ND (16) | ND (15) | ND (15) |
| Aroclor 1262 | 1000 | 25000 | ND (22) | ND (24) | ND (22) | ND (23) | ND (28) | ND (25) | ND (23) | ND (23) |
| Metals (mg/kg) | | | | | | | | | | |
| Aluminum | - | - | 6820 | 7900 | 3240 | 4340 | 5910 | 5420 | 4600 | 4920 |
| Antimony | - | - | <2.3 | <2.3 | <2.0 | <2.0 | <1.7 | <2.2 | <2.2 | <2.2 |
| Arsenic | 16 | 16 | 10.3 | 6.2 | 2.6 | 2.9 | 4.7 | 4.3 | 2.2 | 5.7 |
| Barium | 400 | 10000 | 114 | 90.8 | <20 | 39 | 658 | 812 | 37.1 | 92.5 |
| Beryllium | 590 | 2700 | 0.62 | 0.45 | 0.24 | 0.31 | 0.44 | 0.43 | 0.53 | 0.44 |
| Cadmium | 9.3 | 60 | <0.58 | <0.56 | <0.50 | <0.50 | 0.54 | 0.65 | <0.55 | <0.55 |
| Calcium | - | - | 4240 | 13900 | 2260 | 2150 | 24400 | 32000 | 2290 | 65100 |
| Chromium | - | - | 16.9 | 12.2 | 12.6 | 15.2 | 13.6 | 12.4 | 11.7 | 10.5 |
| Cobalt | - | - | 7.7 | 5.6 | <5.0 | 5.3 | <4.4 | <5.6 | <5.5 | <5.5 |
| Copper | 270 | 10000 | 69.3 | 31 | 9.4 | 16.8 | 39.2 | 29.2 | 10.5 | 32.7 |
| Iron | - | - | 21900 | 14800 | 8360 | 16100 | 11400 | 11100 | 8890 | 17000 |
| Lead | 1000 | 3900 | 342 | 270 | 11.3 | 20.3 | 363 | 337 | 15.8 | 169 |
| Magnesium | - | - | 2270 | 3150 | 3570 | 3940 | 4160 | 3740 | 2240 | 3430 |
| Manganese | 10000 | 10000 | 284 | 270 | 95.9 | 193 | 256 | 255 | 170 | 248 |
| Mercury | 2.8 | 5.7 | 0.082 | 0.18 | 0.067 | 0.037 | 0.33 | 0.34 | 0.07 | 0.16 |
| Nickel | 310 | 10000 | 27.3 | 14.1 | 39.2 | 35.4 | 13.3 | 12.5 | 16.9 | 17.7 |
| Potassium | - | - | <1200 | <1100 | <1000 | <1000 | 1110 | <1100 | <1100 | <1100 |
| Selenium | 1500 | 6800 | <2.3 | <2.3 | <2.0 | <2.0 | <1.7 | <2.2 | <2.2 | <2.2 |
| Silver | 1500 | 6800 | 0.95 | 0.82 | <0.50 | 0.6 | 0.8 | <1.1 ¹ | <0.55 | <2.7 ¹ |
| Sodium | - | - | <1200 | <1100 | <1000 | <1000 | <870 | <1100 | <1100 | <1100 |
| Thallium | - | - | <1.2 | <1.1 | <1.0 | <1.0 | <0.87 | <1.1 | <1.1 | <1.1 |
| Vanadium | - | - | 22.8 | 20.5 | 12.3 | 14.8 | 21.3 | 20.4 | 17 | 17.4 |
| Zinc | 10000 | 10000 | 178 | 95.2 | 25.7 | 37.4 | 370 | 422 | 32.4 | 115 |
| Cyanide | 27 | 10000 | <0.23 ^d | <0.32 ^d | <0.23 ^d | <0.23 ^b | <0.30 ^g | <0.28 ^g | <0.22 ^g | <0.23 ^g |

bgs - Feet below the ground surface

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objective

ND - Not detected at or above the quantitation limit

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

- No criteria

NA - Not Analyzed

Values shaded blue detected above quantitation limit

Values shaded in orange exceeded the NYSDEC - Commercial Use SCO w/ CP-51

Values shaded in green exceeded the NYSDEC - Industrial Use SCO w/ CP-51

^a Associated CCV outside of control limits high, sample was ND.

^b Associated CCV outside of control limits high, sample was ND.

^d Sample prepped within holding time, but run out of holding time.

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-08 | TT-SB-09 | TT-SB-10 | TT-SB-11 | TT-SB-12 | TT-SB-13 | TT-SB-14 | TT-SB-15 |
|---|-----------------------------------|-----------------------------------|------------------------|------------------------|------------|------------|------------|------------|------------|------------|
| Sample Depth in feet bgs | | | 7.0-9.0 | 5.0-7.0 | 7.0-9.0 | 6.5-8.5 | 7.0-9.0 | 7.5-9.5 | 7.5-9.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/22/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 | 11/24/2021 | 11/29/2021 | 11/29/2021 | 11/29/2021 |
| Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| Acetone | 500000 | 1000000 | 23.2 | 22.6 | 22.6 | 25.7 | 50.2 | ND (3.6) | ND (4.6) | 6.9 J |
| Benzene | 44000 | 89000 | ND (0.90) | ND (0.41) | 2.5 | ND (0.43) | ND (0.52) | ND (0.39) | ND (0.50) | ND (0.51) |
| Bromochloromethane | - | - | ND (1.1) | ND (0.51) | ND (0.81) | ND (0.52) | ND (0.64) | ND (0.48) | ND (0.62) | ND (0.63) |
| Bromodichloromethane | - | - | ND (0.85) | ND (0.39) | ND (0.62) | ND (0.40) | ND (0.49) | ND (0.37) | ND (0.47) | ND (0.48) |
| Bromoform | - | - | ND (2.7) | ND (1.2) | ND (2.0) | ND (1.3) | ND (1.5) | ND (1.2) | ND (1.5) | ND (1.5) |
| Bromomethane | - | - | ND (1.5) | ND (0.69) | ND (1.1) | ND (0.72) | ND (0.87) | ND (0.66) | ND (0.84) | ND (0.86) |
| 2-Butanone (MEK) | 500000 | 1000000 | ND (4.8) | ND (2.2) | ND (3.5) | 3.8 J | ND (2.8) | ND (2.1) | ND (2.7) | ND (2.7) |
| Carbon disulfide | - | - | 1.9 J | ND (0.49) | 2.1 J | ND (0.50) | ND (0.61) | ND (0.46) | ND (0.59) | ND (0.60) |
| Carbon tetrachloride | 22000 | 44000 | ND (1.2) | ND (0.56) | ND (0.90) | ND (0.58) | ND (0.70) | ND (0.53) | ND (0.68) | ND (0.69) |
| Chlorobenzene | 500000 | 1000000 | ND (0.91) | ND (0.42) | ND (0.67) | ND (0.43) | ND (0.52) | ND (0.40) | ND (0.51) | ND (0.51) |
| Chloroethane | - | - | ND (1.2) ^a | ND (0.54) ^a | ND (0.86) | ND (0.55) | ND (0.67) | ND (0.51) | ND (0.65) | ND (0.66) |
| Chloroform | 350000 | 700000 | ND (1.0) | ND (0.47) | ND (0.76) | ND (0.49) | ND (0.59) | ND (0.45) | ND (0.57) | ND (0.58) |
| Chloromethane | - | - | ND (3.9) | ND (1.8) | ND (2.9) | ND (1.8) | ND (2.2) | ND (1.7) | ND (2.2) | ND (2.2) |
| Cyclohexane | - | - | ND (1.3) | ND (0.60) | ND (0.96) | ND (0.62) | ND (0.75) | ND (0.57) | ND (0.72) | ND (0.74) |
| 1,2-Dibromo-3-chloropropane | - | - | ND (1.4) | ND (0.63) | ND (1.0) | ND (0.65) | ND (0.79) | ND (0.60) | ND (0.76) | ND (0.78) |
| Dibromochloromethane | - | - | ND (1.1) | ND (0.51) | ND (0.81) | ND (0.52) | ND (0.64) | ND (0.48) | ND (0.62) | ND (0.63) |
| 1,2-Dibromoethane | - | - | ND (0.83) | ND (0.38) | ND (0.61) | ND (0.39) | ND (0.48) | ND (0.36) | ND (0.46) | ND (0.47) |
| 1,2-Dichlorobenzene | 500000 | 1000000 | ND (1.1) ^b | ND (0.50) ^b | ND (0.79) | ND (0.51) | ND (0.62) | ND (0.47) | ND (0.60) | ND (0.61) |
| 1,3-Dichlorobenzene | 280000 | 560000 | ND (0.98) ^b | ND (0.45) ^b | ND (0.72) | ND (0.46) | ND (0.56) | ND (0.43) | ND (0.55) | ND (0.56) |
| 1,4-Dichlorobenzene | 130000 | 250000 | ND (0.98) | ND (0.45) | ND (0.72) | ND (0.46) | ND (0.56) | ND (0.43) | ND (0.54) | ND (0.55) |
| Dichlorodifluoromethane | - | - | ND (1.4) | ND (0.66) | ND (1.1) | ND (0.68) | ND (0.83) | ND (0.63) | ND (0.80) | ND (0.81) |
| 1,1-Dichloroethane | 240000 | 480000 | ND (0.98) | ND (0.45) | ND (0.72) | ND (0.46) | ND (0.56) | ND (0.43) | ND (0.55) | ND (0.55) |
| 1,2-Dichloroethane | 30000 | 60000 | ND (0.93) | ND (0.43) | ND (0.68) | ND (0.44) | ND (0.53) | ND (0.41) | ND (0.52) | ND (0.53) |
| 1,1-Dichloroethene | 500000 | 1000000 | ND (1.3) | ND (0.59) | ND (0.95) | ND (0.61) | ND (0.74) | ND (0.57) | ND (0.72) | ND (0.73) |
| cis-1,2-Dichloroethene | 500000 | 1000000 | ND (1.7) | ND (0.76) | ND (1.2) | ND (0.79) | ND (0.96) | ND (0.73) | ND (0.93) | ND (0.94) |
| trans-1,2-Dichloroethene | 500000 | 1000000 | ND (1.2) | ND (0.55) | ND (0.89) | ND (0.57) | ND (0.69) | ND (0.53) | ND (0.67) | ND (0.68) |
| 1,2-Dichloropropane | - | - | ND (0.93) | ND (0.43) | ND (0.69) | ND (0.44) | ND (0.54) | ND (0.41) | ND (0.52) | ND (0.53) |
| cis-1,3-Dichloropropene | - | - | ND (0.94) | ND (0.43) | ND (0.69) | ND (0.44) | ND (0.54) | ND (0.41) | ND (0.52) | ND (0.53) |
| trans-1,3-Dichloropropene | - | - | ND (0.90) | ND (0.41) | ND (0.67) | ND (0.43) | ND (0.52) | ND (0.40) | ND (0.50) | ND (0.51) |
| Ethylbenzene | 390000 | 780000 | ND (0.90) | ND (0.41) | ND (0.66) | ND (0.42) | ND (0.52) | ND (0.39) | ND (0.50) | ND (0.51) |
| Freon 113 | - | - | ND (5.3) | ND (2.4) | ND (3.9) | ND (2.5) | ND (3.0) | ND (2.3) | ND (2.9) | ND (3.0) |
| 2-Hexanone | - | - | ND (4.2) | ND (1.9) | ND (3.1) | ND (2.0) | ND (2.4) | ND (1.8) | ND (2.3) | ND (2.4) |
| Isopropylbenzene | - | - | ND (2.8) | ND (1.3) | ND (2.1) | ND (1.3) | ND (1.6) | ND (1.2) | ND (1.6) | ND (1.6) |
| Methyl Acetate | - | - | ND (2.7) | ND (1.3) | ND (2.0) | ND (1.3) | ND (1.6) | ND (1.2) | ND (1.5) | ND (1.6) |
| Methylcyclohexane | - | - | ND (1.7) | ND (0.79) | ND (1.3) | ND (0.82) | ND (1.0) | ND (0.76) | ND (0.96) | ND (0.98) |
| Methyl Tert Butyl Ether | 500000 | 1000000 | ND (0.93) | ND (0.43) | ND (0.68) | ND (0.44) | ND (0.53) | ND (0.41) | ND (0.52) | ND (0.53) |
| 4-Methyl-2-pentanone(MIBK) | - | - | ND (4.5) | ND (2.1) | ND (3.3) | ND (2.1) | ND (2.6) | ND (2.0) | ND (2.5) | ND (2.5) |
| Methylene chloride | 500000 | 1000000 | ND (5.2) | ND (2.4) | ND (3.8) | ND (2.4) | ND (3.0) | ND (2.3) | ND (2.9) | ND (2.9) |
| Styrene | - | - | ND (0.79) | ND (0.36) | ND (0.58) | ND (0.38) | ND (0.46) | ND (0.35) | ND (0.44) | ND (0.45) |
| 1,1,2,2-Tetrachloroethane | - | - | ND (1.2) | ND (0.54) | ND (0.87) | ND (0.56) | ND (0.68) | ND (0.52) | ND (0.66) | ND (0.67) |
| Tetrachloroethene | 150000 | 300000 | ND (1.1) | ND (0.53) | ND (0.84) | ND (0.54) | ND (0.66) | ND (0.50) | ND (0.64) | ND (0.65) |
| Toluene | 500000 | 1000000 | ND (1.0) | ND (0.48) | 1.5 | ND (0.49) | ND (0.60) | ND (0.45) | ND (0.58) | ND (0.59) |
| 1,2,3-Trichlorobenzene | - | - | ND (4.9) | ND (2.3) | ND (3.6) | ND (2.3) | ND (2.8) | ND (2.2) | ND (2.8) | ND (2.8) |
| 1,2,4-Trichlorobenzene | - | - | ND (4.9) | ND (2.3) | ND (3.6) | ND (2.3) | ND (2.8) | ND (2.2) | ND (2.8) | ND (2.8) |
| 1,1,1-Trichloroethane | 500000 | 1000000 | ND (0.95) | ND (0.44) | ND (0.70) | ND (0.45) | ND (0.55) | ND (0.42) | ND (0.53) | ND (0.54) |
| 1,1,2-Trichloroethane | - | - | ND (1.1) | ND (0.50) | ND (0.81) | ND (0.52) | ND (0.63) | ND (0.48) | ND (0.61) | ND (0.62) |
| Trichloroethene | 200000 | 400000 | ND (1.5) | ND (0.69) | ND (1.1) | ND (0.71) | ND (0.87) | ND (0.66) | ND (0.84) | ND (0.85) |
| Trichlorofluoromethane | - | - | ND (1.4) ^c | ND (0.62) ^c | ND (1.0) | ND (0.64) | ND (0.78) | ND (0.59) | ND (0.75) | ND (0.77) |
| Vinyl chloride | 13000 | 27000 | ND (0.95) | ND (0.44) | ND (0.70) | ND (0.45) | ND (0.55) | ND (0.42) | ND (0.53) | ND (0.54) |
| m,p-Xylene | - | - | ND (1.8) | ND (0.81) | ND (1.3) | ND (0.84) | ND (1.0) | ND (0.78) | ND (0.99) | ND (1.0) |
| o-Xylene | - | - | ND (0.91) | ND (0.42) | ND (0.67) | 0.61 J | ND (0.52) | ND (0.40) | ND (0.50) | ND (0.51) |
| Xylene (total) | 500000 | 1000000 | ND (0.91) | ND (0.42) | ND (0.67) | 0.61 J | ND (0.52) | ND (0.40) | ND (0.50) | ND (0.51) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-08 | TT-SB-09 | TT-SB-10 | TT-SB-11 | TT-SB-12 | TT-SB-13 | TT-SB-14 | TT-SB-15 |
|--|-----------------------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|
| Sample Depth in feet bgs | | | 7.0-9.0 | 5.0-7.0 | 7.0-9.0 | 6.5-8.5 | 7.0-9.0 | 7.5-9.5 | 7.5-9.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/22/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 | 11/24/2021 | 11/29/2021 | 11/29/2021 | 11/29/2021 |
| PFAS Compounds (ug/kg) | | | | | | | | | | |
| Perfluorobutanoic acid | - | - | ND (0.41) | ND (0.40) | ND (0.44) | ND (0.42) | ND (0.43) | ND (0.41) | ND (0.42) | ND (0.41) |
| Perfluoropentanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorohexanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluoroheptanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorooctanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | 1.7 |
| Perfluorononanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorodecanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluoroundecanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorododecanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorotridecanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.31) | ND (0.30) | ND (0.30) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorotetradecanoic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorobutanesulfonic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorohexanesulfonic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluoroheptanesulfonic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Perfluorooctanesulfonic acid | - | - | ND (0.27) | ND (0.26) | 0.36 J | ND (0.28) | ND (0.28) | ND (0.27) | 0.86 | ND (0.27) |
| Perfluorodecanesulfonic acid | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| PFOSA | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| MeFOSAA | - | - | ND (0.53) | ND (0.53) | ND (0.58) | ND (0.56) | ND (0.57) | ND (0.55) | ND (0.55) | ND (0.54) |
| EtFOSAA | - | - | ND (0.53) | ND (0.53) | ND (0.58) | ND (0.56) | ND (0.57) | ND (0.55) | ND (0.55) | ND (0.54) |
| 6:2 Fluorotelomer sulfonate | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| 8:2 Fluorotelomer sulfonate | - | - | ND (0.27) | ND (0.26) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) | ND (0.27) |
| Semi Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| 2-Chlorophenol | - | - | ND (17) | ND (18) | ND (19) | ND (18) | ND (19) | ND (18) | ND (18) | ND (18) |
| 4-Chloro-3-methyl phenol | - | - | ND (22) | ND (23) | ND (23) | ND (23) | ND (23) | ND (22) | ND (23) | ND (22) |
| 2,4-Dichlorophenol | - | - | ND (30) | ND (31) | ND (32) | ND (32) | ND (33) | ND (31) | ND (31) | ND (31) |
| 2,4-Dimethylphenol | - | - | ND (63) | ND (65) | ND (67) | ND (66) | ND (68) | ND (65) | ND (66) | ND (64) |
| 2,4-Dinitrophenol | - | - | ND (130) ^a | ND (140) ^a | ND (140) ^a | ND (140) | ND (140) | ND (140) | ND (140) | ND (140) |
| 4,6-Dinitro-o-cresol | - | - | ND (38) ^a | ND (39) ^a | ND (40) ^a | ND (40) | ND (41) | ND (39) | ND (39) | ND (39) |
| 2-Methylphenol | - | - | ND (23) | ND (24) | ND (24) | ND (24) | ND (24) | ND (23) | ND (24) | ND (23) |
| 3&4-Methylphenol | - | - | ND (29) | ND (30) | ND (31) | ND (31) | ND (31) | ND (30) | ND (30) | ND (30) |
| 2-Nitrophenol | - | - | ND (23) ^a | ND (24) ^a | ND (25) ^a | ND (25) | ND (25) | ND (24) | ND (24) | ND (24) |
| 4-Nitrophenol | - | - | ND (94) | ND (98) | ND (100) | ND (99) ^a | ND (100) ^a | ND (97) ^a | ND (98) ^a | ND (96) ^a |
| Pentachlorophenol | 6700 | 55000 | ND (33) | ND (35) ^h | ND (35) | ND (35) | ND (36) | ND (34) | ND (35) | ND (34) |
| Phenol | - | - | ND (18) | ND (19) | ND (20) | ND (19) | ND (20) | ND (19) | ND (19) | ND (19) |
| 2,3,4,6-Tetrachlorophenol | - | - | ND (23) | ND (24) | ND (25) | ND (25) | ND (25) | ND (24) | ND (24) | ND (24) |
| 2,4,5-Trichlorophenol | - | - | ND (26) | ND (28) | ND (28) | ND (28) | ND (29) | ND (27) | ND (28) | ND (27) |
| 2,4,6-Trichlorophenol | - | - | ND (21) | ND (22) | ND (22) | ND (22) | ND (23) | ND (22) | ND (22) | ND (22) |
| Acenaphthene | 500000 | 1000000 | 179 | 39.8 | 107 | 212 | 1120 | 1780 | ND (13) | ND (12) |
| Acenaphthylene | 500000 | 1000000 | ND (18) | 62.9 | 121 | 50.5 | 6290 | 233 | ND (19) | ND (18) |
| Acetophenone | - | - | ND (7.6) ^a | ND (7.9) | ND (8.1) ^a | ND (8.0) | ND (8.2) | ND (7.8) | ND (7.9) | ND (7.8) |
| Anthracene | 500000 | 1000000 | 169 | 92.6 | 244 | 341 | 7000 | 3060 | ND (23) | ND (22) |
| Atrazine | - | - | ND (15) ^a | ND (16) ^a | ND (16) ^a | ND (16) | ND (16) | ND (16) | ND (16) | ND (15) |
| Benzo(a)anthracene | 5600 | 11000 | 106 | 156 | 634 | 758 | 7870 | 10000 | 10.0 J | 68.5 |
| Benzo(a)pyrene | 1000 | 1100 | 107 | 190 | 574 | 757 | 9330 | 9080 | ND (17) | 48.1 |
| Benzo(b)fluoranthene | 5600 | 11000 | 121 | 236 | 698 | 938 | 7170 | 11000 | ND (16) | 68.7 |
| Benzo(g,h,i)perylene | 500000 | 1000000 | 63.1 | 143 | 316 | 503 | 1540 | 6040 | ND (18) | 28.3 J |
| Benzo(k)fluoranthene | 56000 | 110000 | 46.1 | 82.5 | 281 | 304 | 1540 | 4110 | ND (17) | 30.2 J |
| 4-Bromophenyl phenyl ether | - | - | ND (14) | ND (14) | ND (15) | ND (14) | ND (15) | ND (14) | ND (14) | ND (14) |
| Butyl benzyl phthalate | - | - | ND (8.6) | ND (9.0) | ND (9.2) | ND (9.1) | ND (9.3) | ND (8.9) | ND (9.0) | ND (8.8) |
| 1,1'-Biphenyl | - | - | 26.8 J | 11.5 J | 11.7 J | 29.7 J | 1330 | 104 | ND (5.0) | 5.4 J |
| Benzaldehyde | - | - | ND (8.8) | ND (9.1) | ND (9.3) | ND (9.2) | ND (9.5) | ND (9.0) | ND (9.1) | ND (9.0) |
| 2-Chloronaphthalene | - | - | ND (8.4) | ND (8.8) | ND (9.0) | ND (8.8) | ND (9.1) | ND (8.7) | ND (8.8) | ND (8.6) |
| 4-Chloroaniline | - | - | ND (13) | ND (13) | ND (14) | ND (13) | ND (14) | ND (13) | ND (13) | ND (13) |
| Carbazole | - | - | ND (5.1) | 16.1 J | 40.5 J | 90.1 | 42.3 J | 946 | ND (5.3) | 5.4 J |
| Caprolactam | - | - | ND (14) | ND (15) | ND (15) | ND (15) | ND (15) | ND (14) ^a | ND (15) ^a | ND (14) ^a |
| Chrysene | 56000 | 110000 | 124 | 208 | 686 | 791 | 7730 | 9330 | ND (12) | 72.8 |
| bis(2-Chloroethoxy)methane | - | - | ND (7.6) | ND (7.9) | ND (8.1) | ND (7.9) | ND (8.2) | ND (7.8) | ND (7.9) | ND (7.7) |
| bis(2-Chloroethyl)ether | - | - | ND (15) | ND (16) | ND (16) | ND (16) | ND (17) | ND (16) | ND (16) | ND (16) |
| 2,2'-Oxybis(1-chloropropane) | - | - | ND (13) | ND (13) | ND (14) | ND (13) | ND (14) | ND (13) | ND (13) | ND (13) |
| 4-Chlorophenyl phenyl ether | - | - | ND (11) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) |
| 2,4-Dinitrotoluene | - | - | ND (11) ^a | ND (11) ^a | ND (12) ^a | ND (12) | ND (12) | ND (11) | ND (11) | ND (11) |

Table 1
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Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-08 | TT-SB-09 | TT-SB-10 | TT-SB-11 | TT-SB-12 | TT-SB-13 | TT-SB-14 | TT-SB-15 |
|--|-----------------------------------|-----------------------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Sample Depth in feet bgs | | | 7.0-9.0 | 5.0-7.0 | 7.0-9.0 | 6.5-8.5 | 7.0-9.0 | 7.5-9.5 | 7.5-9.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/22/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 | 11/24/2021 | 11/29/2021 | 11/29/2021 | 11/29/2021 |
| 2,6-Dinitrotoluene | - | - | ND (18) | ND (18) | ND (19) | ND (19) | ND (19) | ND (18) | ND (18) | ND (18) |
| 3,3'-Dichlorobenzidine | - | - | ND (29) | ND (31) | ND (31) | ND (31) | ND (32) | ND (30) | ND (31) | ND (30) |
| 1,4-Dioxane | - | - | ND (23) | ND (24) | ND (25) | ND (25) ^b | ND (25) ^b | ND (24) | ND (24) | ND (24) |
| Dibenzo(a,h)anthracene | 560 | 1100 | 19.2 J | 35.9 J | 95.3 | 141 | 343 | 1530 | ND (16) | ND (16) |
| Dibenzofuran | 350000 | 1000000 | 173 | 20.0 J | 85.5 | 123 | 324 | 802 | ND (15) | ND (15) |
| Di-n-butyl phthalate | - | - | ND (5.8) | ND (6.0) | ND (6.1) | 54.6 J | ND (6.2) | ND (5.9) | ND (6.0) | ND (5.9) |
| Di-n-octyl phthalate | - | - | ND (8.8) | ND (9.2) | ND (9.4) | ND (9.2) | ND (9.5) | ND (9.1) | ND (9.2) | ND (9.0) |
| Diethyl phthalate | - | - | ND (7.5) | ND (7.8) | ND (8.0) | ND (7.9) | ND (8.2) | ND (7.8) | ND (7.8) | ND (7.7) |
| Dimethyl phthalate | - | - | ND (6.3) | ND (6.5) | ND (6.7) | ND (6.6) | ND (6.8) | ND (6.5) | ND (6.6) | ND (6.4) |
| bis(2-Ethylhexyl)phthalate | - | - | 111 | 326 | 160 | 186 | 317 | ND (8.5) | 12.7 J | 10.2 J |
| Fluoranthene | 500000 | 1000000 | 262 | 302 | 1140 | 1880 | 14400 | 21600 | 17.1 J | 176 |
| Fluorene | 500000 | 1000000 | 339 | 22.7 J | 83.7 | 223 | 7210 | 1420 | ND (17) | ND (17) |
| Hexachlorobenzene | 6000 | 12000 | ND (8.9) | ND (9.3) | ND (9.5) | ND (9.4) | ND (9.7) | ND (9.2) | ND (9.3) | ND (9.1) |
| Hexachlorobutadiene | - | - | ND (14) ^a | ND (15) | ND (15) ^a | ND (15) | ND (15) | ND (15) | ND (15) | ND (15) |
| Hexachlorocyclopentadiene | - | - | ND (14) | ND (15) ^h | ND (15) | ND (15) | ND (15) | ND (14) ^a | ND (15) ^a | ND (14) ^a |
| Hexachloroethane | - | - | ND (17) | ND (18) | ND (19) | ND (18) | ND (19) | ND (18) | ND (18) | ND (18) |
| Indeno(1,2,3-cd)pyrene | 5600 | 11000 | 77.7 | 160 | 400 | 594 | 1730 | 6880 | ND (17) | 27.8 J |
| Isophorone | - | - | ND (7.6) | ND (7.9) | ND (8.1) | ND (7.9) | ND (8.2) | ND (7.8) | ND (7.9) | ND (7.7) |
| 2-Methylnaphthalene | - | - | 1050 | 16.6 J | 37.7 J | 99.4 | 3300 | 281 | ND (8.3) | 8.3 J |
| 2-Nitroaniline | - | - | ND (8.3) ^a | ND (8.7) | ND (8.9) ^a | ND (8.8) | ND (9.0) | ND (8.6) | ND (8.7) | ND (8.5) |
| 3-Nitroaniline | - | - | ND (8.8) | ND (9.2) | ND (9.4) | ND (9.3) | ND (9.6) | ND (9.1) | ND (9.2) | ND (9.0) |
| 4-Nitroaniline | - | - | ND (9.2) | ND (9.5) | ND (9.8) | ND (9.6) | ND (9.9) | ND (9.4) | ND (9.5) | ND (9.4) |
| Naphthalene | 500000 | 1000000 | 70 | 24.8 J | 106 | 91 | 1290 | 840 | 10.2 J | 30.7 J |
| Nitrobenzene | - | - | ND (14) | ND (14) | ND (15) | ND (14) | ND (15) | ND (14) | ND (14) | ND (14) |
| N-Nitroso-di-n-propylamine | - | - | ND (10) ^a | ND (11) | ND (11) ^a | ND (11) | ND (11) | ND (11) | ND (11) | ND (10) |
| N-Nitrosodiphenylamine | - | - | ND (13) | ND (13) | ND (14) | ND (14) | ND (14) | ND (13) | ND (13) | ND (13) |
| Phenanthrene | 500000 | 1000000 | 943 | 141 | 539 | 1400 | 37400 | 12400 | 12.3 J | 98.8 |
| Pyrene | 500000 | 1000000 | 267 | 408 | 1260 | 1790 | 29100 | 18800 | 16.3 J | 156 |
| 1,2,4,5-Tetrachlorobenzene | - | - | ND (9.0) | ND (9.3) | ND (9.6) | ND (9.4) | ND (9.7) | ND (9.2) | ND (9.4) | ND (9.2) |
| 1,4 Dioxane (ug/kg) | | | | | | | | | | |
| 1,4-Dioxane | - | - | ND (1.8) | ND (1.8) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.8) | ND (1.8) |
| Pesticides and herbicides (ug/kg) | | | | | | | | | | |
| Aldrin | 680 | 1400 | ND (0.54) | 0.96 ^a | ND (0.62) | ND (0.62) | ND (0.61) | ND (0.56) | ND (0.59) | ND (0.61) |
| alpha-BHC | 3400 | 6800 | ND (0.54) | ND (0.58) | ND (0.61) | 1.3 | ND (0.60) | ND (0.55) | ND (0.59) | ND (0.60) |
| beta-BHC | 3000 | 14000 | ND (0.60) | ND (0.65) | ND (0.68) | ND (0.68) | ND (0.67) | ND (0.61) | ND (0.65) | ND (0.67) |
| delta-BHC | 500000 | 1000000 | ND (0.63) | ND (0.69) | ND (0.73) | ND (0.73) | ND (0.71) | ND (0.65) | ND (0.69) | ND (0.71) |
| gamma-BHC (Lindane) | 9200 | 23000 | ND (0.49) | ND (0.53) | ND (0.56) | 5.2 | ND (0.54) | ND (0.50) | ND (0.53) | ND (0.54) |
| alpha-Chlordane | 24000 | 47000 | ND (0.53) | 6.8 | ND (0.61) | 2.2 | ND (0.60) | ND (0.55) | ND (0.58) | ND (0.59) |
| gamma-Chlordane | - | - | ND (0.30) | 6.8 | ND (0.34) | 8.8 | ND (0.33) | ND (0.31) | ND (0.33) | ND (0.33) |
| Dieldrin | 1400 | 28000 | ND (0.45) | 0.90 ^a | ND (0.52) | 3 | ND (0.51) | 5.3 ^b | ND (0.49) | ND (0.51) |
| 4,4'-DDD | 92000 | 180000 | ND (0.60) | 8.7 | 1.1 ^e | 108 | ND (0.68) | ND (0.62) | ND (0.66) | ND (0.68) |
| 4,4'-DDE | 62000 | 120000 | 0.82 | 3.7 | 2.2 | 14.3 | ND (0.65) | 2.2 ^b | ND (0.63) | ND (0.65) |
| 4,4'-DDT | 47000 | 94000 | ND (0.58) | 2 | 0.86 ^a | 10.1 | ND (0.65) | 18.8 | ND (0.64) | ND (0.65) |
| Endrin | 89000 | 410000 | ND (0.51) | ND (0.56) | ND (0.59) | ND (0.59) | ND (0.57) | 10.4 ^b | ND (0.56) | ND (0.57) |
| Endosulfan sulfate | 200000 | 920000 | ND (0.51) | ND (0.56) | ND (0.59) | ND (0.59) | ND (0.58) | ND (0.53) | ND (0.56) | ND (0.58) |
| Endrin aldehyde | - | - | ND (0.37) | ND (0.41) | ND (0.43) | ND (0.43) | ND (0.42) | ND (0.38) | ND (0.41) | ND (0.42) |
| Endosulfan-I | 200000 | 920000 | ND (0.38) | ND (0.41) | ND (0.44) | ND (0.44) | ND (0.43) | ND (0.39) | ND (0.41) | ND (0.42) |
| Endosulfan-II | 200000 | 920000 | ND (0.41) | ND (0.45) | ND (0.47) | 3.8 | ND (0.46) | 12.3 ^b | ND (0.45) | ND (0.46) |
| Heptachlor | 15000 | 29000 | ND (0.57) | 0.94 | ND (0.65) | ND (0.65) | ND (0.64) | ND (0.58) | ND (0.62) | ND (0.64) |
| Heptachlor epoxide | - | - | ND (0.46) | 1.8 ⁱ | ND (0.53) | 5.6 | ND (0.52) | ND (0.48) | ND (0.50) | ND (0.52) |
| Methoxychlor | - | - | ND (0.52) | ND (0.57) | 4.1 | ND (0.60) | ND (0.59) | ND (0.54) | ND (0.57) | ND (0.59) |
| Endrin ketone | - | - | ND (0.48) | ND (0.52) | ND (0.55) | ND (0.55) | ND (0.53) | ND (0.49) | ND (0.52) | ND (0.53) |
| Toxaphene | - | - | ND (15) | ND (17) | ND (18) | ND (18) | ND (17) | ND (16) | ND (17) | ND (17) |
| 2,4-D | - | - | ND (31) | ND (32) | ND (33) | ND (33) | ND (34) | ND (8.2) | ND (8.3) | ND (7.7) |
| 2,4,5-TP (Silvex) | 500000 | 1000000 | ND (7.8) | ND (8.2) | ND (8.4) | ND (8.3) | ND (8.6) | ND (2.1) | ND (2.1) | ND (1.9) |
| 2,4,5-T | - | - | ND (6.9) | ND (7.2) | ND (7.4) | ND (7.3) | ND (7.6) | ND (1.8) | ND (1.9) | ND (1.7) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-08 | TT-SB-09 | TT-SB-10 | TT-SB-11 | TT-SB-12 | TT-SB-13 | TT-SB-14 | TT-SB-15 |
|--------------------------|-----------------------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------|------------|------------|
| Sample Depth in feet bgs | | | 7.0-9.0 | 5.0-7.0 | 7.0-9.0 | 6.5-8.5 | 7.0-9.0 | 7.5-9.5 | 7.5-9.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/22/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 | 11/24/2021 | 11/29/2021 | 11/29/2021 | 11/29/2021 |
| PCBs (ug/kg) | | | | | | | | | | |
| Aroclor 1016 | 1000 | 25000 | ND (15) | ND (17) | ND (18) | ND (18) | ND (17) | ND (16) | ND (17) | ND (17) |
| Aroclor 1221 | 1000 | 25000 | ND (20) | ND (22) | ND (23) | ND (23) | ND (23) | ND (21) | ND (22) | ND (23) |
| Aroclor 1232 | 1000 | 25000 | ND (21) | ND (23) | ND (24) | ND (24) | ND (24) | ND (22) | ND (23) | ND (24) |
| Aroclor 1242 | 1000 | 25000 | ND (14) | ND (15) | ND (15) | ND (16) | ND (15) | ND (14) | ND (15) | ND (15) |
| Aroclor 1248 | 1000 | 25000 | ND (29) | ND (32) | ND (34) | ND (34) | ND (33) | ND (30) | ND (32) | ND (33) |
| Aroclor 1254 | 1000 | 25000 | ND (18) | ND (19) | ND (20) | ND (20) | ND (20) | ND (18) | ND (19) | ND (20) |
| Aroclor 1260 | 1000 | 25000 | ND (14) | ND (15) | ND (16) | ND (16) | ND (16) | ND (14) | ND (15) | ND (16) |
| Aroclor 1268 | 1000 | 25000 | ND (14) | ND (15) | ND (16) | ND (16) | ND (16) | ND (14) | ND (15) | ND (16) |
| Aroclor 1262 | 1000 | 25000 | ND (22) | ND (24) | ND (25) | ND (25) | ND (24) | ND (22) | ND (24) | ND (24) |
| Metals (mg/kg) | | | | | | | | | | |
| Aluminum | - | - | 8770 | 7740 | 9560 | 5050 | 6280 | 7770 | 4360 | 3340 |
| Antimony | - | - | <2.2 | <2.2 | <2.3 | <2.3 | 2.9 | <2.2 | <2.2 | <2.3 |
| Arsenic | 16 | 16 | <2.2 | 6.4 | 4.5 | 4.7 | 8.5 | 7.7 | 4.2 | 4.9 |
| Barium | 400 | 10000 | 85.1 | 69.5 | 78.5 | 95.3 | 240 | 34.3 | 35.8 | 60.2 |
| Beryllium | 590 | 2700 | 0.81 | 0.56 | 0.62 | 0.48 | 0.36 | 0.6 | 0.41 | 0.31 |
| Cadmium | 9.3 | 60 | <0.55 | <0.55 | 3 | <0.57 | 5.1 ° | <0.55 | <0.55 | <0.57 |
| Calcium | - | - | 30700 | 21800 | 30100 | 7380 | 49000 | 1960 | 1840 | 948 |
| Chromium | - | - | 17.6 | 15.5 | 17.1 | 33.2 | 23.8 | 16.6 | 9.6 | 10.1 |
| Cobalt | - | - | 12.8 | 6 | 5.7 | 7.6 | 7.1 | 7.4 | 5.9 | 7.9 |
| Copper | 270 | 10000 | 44.4 | 36.2 | 15.5 | 90.5 | 124 ° | 19.1 | 26 | 58.9 |
| Iron | - | - | 16800 | 13800 | 14700 | 11900 | 29300 | 17900 | 11900 | 14900 |
| Lead | 1000 | 3900 | 31.8 | 71.4 | 73.3 | 526 | 266 ° | 33.9 | 33.4 | 160 |
| Magnesium | - | - | 17900 | 3030 | 8400 | 3730 | 5970 | 2610 | 1160 | 989 |
| Manganese | 10000 | 10000 | 313 | 253 | 390 | 180 | 323 ° | 181 | 181 | 246 |
| Mercury | 2.8 | 5.7 | 0.28 | 0.15 | 0.11 | 2.5 | 0.54 | 0.081 | 0.051 | 0.61 |
| Nickel | 310 | 10000 | 23.6 | 19.6 | 21.7 | 29.6 | 26.2 | 16.8 | 16.5 | 17.2 |
| Potassium | - | - | 3080 | 1170 | 2370 | <1100 | <1200 | 1420 | <1100 | <1100 |
| Selenium | 1500 | 6800 | <2.2 | <2.2 | <2.3 | <2.3 | <12 ° | <2.2 | <2.2 | <2.3 |
| Silver | 1500 | 6800 | <1.1 ^f | 0.87 | <1.1 ^f | <0.57 | <2.9 ° | 0.66 | <0.55 | 0.63 |
| Sodium | - | - | <1100 | <1100 | <1100 | <1100 | <1200 | <1100 | <1100 | <1100 |
| Thallium | - | - | <1.1 | <1.1 | <1.1 | <1.1 | <5.8 ° | <1.1 | <1.1 | <1.1 |
| Vanadium | - | - | 30.3 | 24.2 | 22.7 | 17.9 | 25.5 | 22.9 | 15.4 | 16 |
| Zinc | 10000 | 10000 | 230 | 63.7 | 569 | 459 | 1220 | 53.8 | 44.4 | 82.9 |
| Cyanide | 27 | 10000 | <0.21 ^g | <0.22 ^g | <0.23 ^g | <0.34 ^g | <0.30 ^g | <0.27 | 0.32 | 0.48 |

bgs - Feet below the ground surface

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objective

ND - Not detected at or above the quantitation limit

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

- No criteria

NA - Not Analyzed

Values shaded blue detected above quantitation limit

Values shaded in orange exceeded the NYSDEC - Commercial Use SCO w/ CP-51

Values shaded in green exceeded the NYSDEC - Industrial Use SCO w/ CP-51

^h Associated CCV outside of control limits high, sample was ND.

ⁱ Associated CCV outside of control limits high, sample was ND.

^j Sample prepped within holding time, but run out of holding time.

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-16 | TT-SB-17 | TT-SB-18 | TT-SB-19 | TT-SB-20 | TT-SB-21 | TT-SB-22 | TT-SB-23 |
|---|-----------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Depth in feet bgs | | | 7.5-9.5 | 7.0-9.0 | 7.0-9.0 | 7.0-9.0 | 6.5-8.5 | 6.5-8.5 | 6.5-8.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/29/2021 | 11/29/2021 | 11/29/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 |
| Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| Acetone | 500000 | 1000000 | ND (3.5) | ND (3.5) | 4.1 J | ND (3.6) | ND (3.9) | 9.7 | 5.1 J | 7.0 J |
| Benzene | 44000 | 89000 | ND (0.38) | ND (0.38) | ND (0.43) | ND (0.39) | ND (0.43) | ND (0.43) | ND (0.41) | ND (0.43) |
| Bromochloromethane | - | - | ND (0.47) | ND (0.47) | ND (0.52) | ND (0.48) | ND (0.53) | ND (0.53) | ND (0.50) | ND (0.53) |
| Bromodichloromethane | - | - | ND (0.36) | ND (0.36) | ND (0.40) | ND (0.37) | ND (0.41) | ND (0.40) | ND (0.38) | ND (0.41) |
| Bromoform | - | - | ND (1.1) | ND (1.1) | ND (1.3) | ND (1.2) | ND (1.3) | ND (1.3) | ND (1.2) | ND (1.3) |
| Bromomethane | - | - | ND (0.64) | ND (0.64) | ND (0.71) | ND (0.66) | ND (0.72) | ND (0.72) | ND (0.68) | ND (0.73) |
| 2-Butanone (MEK) | 500000 | 1000000 | ND (2.0) | ND (2.0) | ND (2.3) | ND (2.1) | ND (2.3) | ND (2.3) | ND (2.2) | ND (2.3) |
| Carbon disulfide | - | - | ND (0.45) | ND (0.45) | ND (0.50) | ND (0.46) | ND (0.51) | ND (0.50) | ND (0.48) | ND (0.51) |
| Carbon tetrachloride | 22000 | 44000 | ND (0.52) | ND (0.52) | ND (0.58) | ND (0.53) | ND (0.58) | ND (0.58) | ND (0.55) | ND (0.59) |
| Chlorobenzene | 500000 | 1000000 | ND (0.39) | ND (0.39) | ND (0.43) | ND (0.40) | ND (0.43) | ND (0.43) | ND (0.41) | ND (0.44) |
| Chloroethane | - | - | ND (0.50) | ND (0.50) | ND (0.55) | ND (0.51) | ND (0.56) | ND (0.56) | ND (0.53) | ND (0.56) |
| Chloroform | 350000 | 700000 | ND (0.44) | ND (0.44) | ND (0.48) | ND (0.45) | ND (0.49) | ND (0.49) | ND (0.46) | ND (0.49) |
| Chloromethane | - | - | ND (1.6) | ND (1.6) | ND (1.8) | ND (1.7) | ND (1.9) | ND (1.8) | ND (1.8) | ND (1.9) |
| Cyclohexane | - | - | ND (0.55) | ND (0.55) | ND (0.61) | ND (0.57) | ND (0.62) | ND (0.62) | ND (0.59) | ND (0.62) |
| 1,2-Dibromo-3-chloropropane | - | - | ND (0.58) | ND (0.58) | ND (0.65) | ND (0.60) | ND (0.66) | ND (0.65) | ND (0.62) | ND (0.66) |
| Dibromochloromethane | - | - | ND (0.47) | ND (0.47) | ND (0.52) | ND (0.48) | ND (0.53) | ND (0.53) | ND (0.50) | ND (0.53) |
| 1,2-Dibromoethane | - | - | ND (0.35) | ND (0.35) | ND (0.39) | ND (0.36) | ND (0.40) | ND (0.40) | ND (0.38) | ND (0.40) |
| 1,2-Dichlorobenzene | 500000 | 1000000 | ND (0.46) | ND (0.46) | ND (0.51) | ND (0.47) | ND (0.52) | ND (0.51) | ND (0.49) | ND (0.52) |
| 1,3-Dichlorobenzene | 280000 | 560000 | ND (0.42) | ND (0.42) | ND (0.46) | ND (0.43) | ND (0.47) | ND (0.47) | ND (0.44) | ND (0.47) |
| 1,4-Dichlorobenzene | 130000 | 250000 | ND (0.42) | ND (0.41) | ND (0.46) | ND (0.43) | ND (0.47) | ND (0.47) | ND (0.44) | ND (0.47) |
| Dichlorodifluoromethane | - | - | ND (0.61) | ND (0.61) | ND (0.68) | ND (0.63) | ND (0.69) | ND (0.68) | ND (0.65) | ND (0.69) |
| 1,1-Dichloroethane | 240000 | 480000 | ND (0.42) | ND (0.42) | ND (0.46) | ND (0.43) | ND (0.47) | ND (0.47) | ND (0.44) | ND (0.47) |
| 1,2-Dichloroethane | 30000 | 60000 | ND (0.40) | ND (0.39) | ND (0.44) | ND (0.41) | ND (0.44) | ND (0.44) | ND (0.42) | ND (0.45) |
| 1,1-Dichloroethene | 500000 | 1000000 | ND (0.55) | ND (0.55) | ND (0.61) | ND (0.56) | ND (0.62) | ND (0.62) | ND (0.59) | ND (0.62) |
| cis-1,2-Dichloroethene | 500000 | 1000000 | ND (0.71) | ND (0.70) | ND (0.78) | ND (0.72) | ND (0.79) | ND (0.79) | ND (0.75) | ND (0.80) |
| trans-1,2-Dichloroethene | 500000 | 1000000 | ND (0.51) | ND (0.51) | ND (0.57) | ND (0.53) | ND (0.58) | ND (0.58) | ND (0.55) | ND (0.58) |
| 1,2-Dichloropropane | - | - | ND (0.40) | ND (0.40) | ND (0.44) | ND (0.41) | ND (0.45) | ND (0.45) | ND (0.42) | ND (0.45) |
| cis-1,3-Dichloropropene | - | - | ND (0.40) | ND (0.40) | ND (0.44) | ND (0.41) | ND (0.45) | ND (0.45) | ND (0.42) | ND (0.45) |
| trans-1,3-Dichloropropene | - | - | ND (0.38) | ND (0.38) | ND (0.43) | ND (0.39) | ND (0.43) | ND (0.43) | ND (0.41) | ND (0.43) |
| Ethylbenzene | 390000 | 780000 | ND (0.38) | ND (0.38) | ND (0.42) | ND (0.39) | ND (0.43) | ND (0.43) | ND (0.40) | ND (0.43) |
| Freon 113 | - | - | ND (2.2) | ND (2.2) | ND (2.5) | ND (2.3) | ND (2.5) | ND (2.5) | ND (2.4) | ND (2.5) |
| 2-Hexanone | - | - | ND (1.8) | ND (1.8) | ND (2.0) | ND (1.8) | ND (2.0) | ND (2.0) | ND (1.9) | ND (2.0) |
| Isopropylbenzene | - | - | ND (1.2) | ND (1.2) | ND (1.3) | ND (1.2) | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.3) |
| Methyl Acetate | - | - | ND (1.2) | ND (1.2) | ND (1.3) | ND (1.2) | ND (1.3) | ND (1.3) | ND (1.2) | ND (1.3) |
| Methylcyclohexane | - | - | ND (0.74) | ND (0.73) | ND (0.82) | ND (0.75) | ND (0.83) | ND (0.82) | ND (0.78) | ND (0.83) |
| Methyl Tert Butyl Ether | 500000 | 1000000 | ND (0.39) | ND (0.39) | ND (0.44) | ND (0.40) | ND (0.44) | ND (0.44) | ND (0.42) | ND (0.45) |
| 4-Methyl-2-pentanone(MIBK) | - | - | ND (1.9) | ND (1.9) | ND (2.1) | ND (2.0) | ND (2.1) | ND (2.1) | ND (2.0) | ND (2.2) |
| Methylene chloride | 500000 | 1000000 | ND (2.2) | ND (2.2) | ND (2.4) | ND (2.3) | ND (2.5) | ND (2.5) | ND (2.3) | ND (2.5) |
| Styrene | - | - | ND (0.34) | ND (0.34) | ND (0.38) | ND (0.35) | ND (0.38) | ND (0.38) | ND (0.36) | ND (0.38) |
| 1,1,2,2-Tetrachloroethane | - | - | ND (0.50) | ND (0.50) | ND (0.56) | ND (0.52) | ND (0.57) | ND (0.56) | ND (0.54) | ND (0.57) |
| Tetrachloroethene | 150000 | 300000 | ND (0.49) | ND (0.49) | ND (0.54) | ND (0.50) | ND (0.55) | ND (0.55) | ND (0.52) | ND (0.55) |
| Toluene | 500000 | 1000000 | ND (0.44) | ND (0.44) | ND (0.49) | ND (0.45) | ND (0.50) | ND (0.49) | ND (0.47) | ND (0.50) |
| 1,2,3-Trichlorobenzene | - | - | ND (2.1) | ND (2.1) | ND (2.3) | ND (2.2) | ND (2.4) | ND (2.4) | ND (2.2) | ND (2.4) |
| 1,2,4-Trichlorobenzene | - | - | ND (2.1) | ND (2.1) | ND (2.3) | ND (2.2) | ND (2.4) | ND (2.4) | ND (2.2) | ND (2.4) |
| 1,1,1-Trichloroethane | 500000 | 1000000 | ND (0.41) | ND (0.41) | ND (0.45) | ND (0.42) | ND (0.46) | ND (0.46) | ND (0.43) | ND (0.46) |
| 1,1,2-Trichloroethane | - | - | ND (0.47) | ND (0.46) | ND (0.52) | ND (0.48) | ND (0.52) | ND (0.52) | ND (0.49) | ND (0.53) |
| Trichloroethene | 200000 | 400000 | ND (0.64) | ND (0.64) | ND (0.71) | ND (0.66) | ND (0.72) | ND (0.72) | ND (0.68) | ND (0.72) |
| Trichlorofluoromethane | - | - | ND (0.58) | ND (0.57) | ND (0.64) | ND (0.59) | ND (0.65) | ND (0.64) | ND (0.61) | ND (0.65) |
| Vinyl chloride | 13000 | 27000 | ND (0.40) | ND (0.40) | ND (0.45) | ND (0.41) | ND (0.45) | ND (0.45) | ND (0.43) | ND (0.46) |
| m,p-Xylene | - | - | ND (0.75) | ND (0.75) | ND (0.84) | ND (0.77) | ND (0.85) | ND (0.84) | ND (0.80) | ND (0.85) |
| o-Xylene | - | - | ND (0.39) | ND (0.38) | ND (0.43) | ND (0.39) | ND (0.43) | ND (0.43) | ND (0.41) | ND (0.44) |
| Xylene (total) | 500000 | 1000000 | ND (0.39) | ND (0.38) | ND (0.43) | ND (0.39) | ND (0.43) | ND (0.43) | ND (0.41) | ND (0.44) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-16 | TT-SB-17 | TT-SB-18 | TT-SB-19 | TT-SB-20 | TT-SB-21 | TT-SB-22 | TT-SB-23 |
|--|-----------------------------------|-----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Sample Depth in feet bgs | | | 7.5-9.5 | 7.0-9.0 | 7.0-9.0 | 7.0-9.0 | 6.5-8.5 | 6.5-8.5 | 6.5-8.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/29/2021 | 11/29/2021 | 11/29/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 |
| PFAS Compounds (ug/kg) | | | | | | | | | | |
| Perfluorobutanoic acid | - | - | ND (0.44) | ND (0.40) | ND (0.43) | ND (0.42) | ND (0.44) | ND (0.44) | ND (0.45) | ND (0.44) |
| Perfluoropentanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorohexanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluoroheptanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorooctanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorononanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorodecanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluoroundecanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorododecanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorotridecanoic acid | - | - | ND (0.31) | ND (0.28) | ND (0.30) | ND (0.29) | ND (0.31) | ND (0.31) | ND (0.31) | ND (0.31) |
| Perfluorotetradecanoic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorobutanesulfonic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorohexanesulfonic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluoroheptanesulfonic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorooctanesulfonic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Perfluorodecanesulfonic acid | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| PFOSA | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| MeFOSAA | - | - | ND (0.58) | ND (0.53) | ND (0.56) | ND (0.55) | ND (0.58) | ND (0.58) | ND (0.59) | ND (0.58) |
| EtFOSAA | - | - | ND (0.58) | ND (0.53) | ND (0.56) | ND (0.55) | ND (0.58) | ND (0.58) | ND (0.59) | ND (0.58) |
| 6:2 Fluorotelomer sulfonate | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| 8:2 Fluorotelomer sulfonate | - | - | ND (0.29) | ND (0.26) | ND (0.28) | ND (0.27) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Semi Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| 2-Chlorophenol | - | - | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (19) | ND (19) | ND (19) |
| 4-Chloro-3-methyl phenol | - | - | ND (22) | ND (22) | ND (23) | ND (22) | ND (23) | ND (23) | ND (24) | ND (23) |
| 2,4-Dichlorophenol | - | - | ND (31) | ND (31) | ND (32) | ND (30) | ND (32) | ND (32) | ND (33) | ND (32) |
| 2,4-Dimethylphenol | - | - | ND (64) | ND (64) | ND (66) | ND (63) | ND (66) | ND (67) | ND (69) | ND (67) |
| 2,4-Dinitrophenol | - | - | ND (140) | ND (130) | ND (140) | ND (130) | ND (140) | ND (140) | ND (150) | ND (140) |
| 4,6-Dinitro-o-cresol | - | - | ND (38) | ND (38) | ND (40) | ND (38) | ND (40) | ND (40) | ND (42) | ND (41) |
| 2-Methylphenol | - | - | ND (23) | ND (23) | ND (24) | ND (23) | ND (24) | ND (24) | ND (25) | ND (24) |
| 3&4-Methylphenol | - | - | ND (30) | ND (29) | ND (30) | ND (29) | ND (30) | ND (31) | ND (32) | ND (31) |
| 2-Nitrophenol | - | - | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (25) | ND (26) | ND (25) |
| 4-Nitrophenol | - | - | ND (96) ^a | ND (96) ^a | ND (99) ^a | ND (95) ^a | ND (99) ^a | ND (100) ^a | ND (100) ^a | ND (100) ^a |
| Pentachlorophenol | 6700 | 55000 | ND (34) | ND (34) | ND (35) | ND (33) | ND (35) | ND (36) | ND (37) | ND (36) |
| Phenol | - | - | ND (19) | ND (19) | ND (19) | ND (19) | ND (19) | ND (20) | ND (20) | ND (20) |
| 2,3,4,6-Tetrachlorophenol | - | - | ND (24) | ND (24) | ND (24) | ND (24) | ND (25) | ND (25) | ND (26) | ND (25) |
| 2,4,5-Trichlorophenol | - | - | ND (27) | ND (27) | ND (28) | ND (27) | ND (28) | ND (28) | ND (29) | ND (28) |
| 2,4,6-Trichlorophenol | - | - | ND (21) | ND (21) | ND (22) | ND (21) | ND (22) | ND (23) | ND (23) | ND (23) |
| Acenaphthene | 500000 | 1000000 | ND (12) | ND (12) | ND (13) | ND (12) | ND (13) | ND (13) | ND (13) | ND (13) |
| Acenaphthylene | 500000 | 1000000 | ND (18) | ND (18) | ND (19) | ND (18) | ND (19) | ND (19) | ND (20) | ND (19) |
| Acetophenone | - | - | ND (7.7) | ND (7.7) | ND (8.0) | ND (7.7) | ND (8.0) | ND (8.1) | ND (8.4) | ND (8.1) |
| Anthracene | 500000 | 1000000 | ND (22) | ND (22) | ND (23) | ND (22) | ND (23) | ND (23) | ND (24) | ND (23) |
| Atrazine | - | - | ND (15) | ND (15) | ND (16) | ND (15) | ND (16) | ND (16) | ND (17) | ND (16) |
| Benzo(a)anthracene | 5600 | 11000 | ND (10) | 38.7 | 22.2 J | 33.3 J | 54.8 | 26.4 J | ND (11) | ND (11) |
| Benzo(a)pyrene | 1000 | 1100 | ND (16) | 29.4 J | ND (17) | 22.9 J | 48.9 | 29.2 J | ND (18) | ND (17) |
| Benzo(b)fluoranthene | 5600 | 11000 | ND (16) | 36.2 | 18.5 J | 25.4 J | 60.4 | 27.2 J | ND (17) | ND (17) |
| Benzo(g,h,i)perylene | 500000 | 1000000 | ND (18) | 21.3 J | ND (18) | ND (18) | 36.5 J | 20.3 J | ND (19) | ND (19) |
| Benzo(k)fluoranthene | 560000 | 1100000 | ND (17) | 17.6 J | ND (17) | ND (17) | 24.2 J | ND (18) | ND (18) | ND (18) |
| 4-Bromophenyl phenyl ether | - | - | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (15) | ND (15) | ND (15) |
| Butyl benzyl phthalate | - | - | ND (8.8) | ND (8.7) | ND (9.0) | ND (8.7) | ND (9.0) | ND (9.2) | ND (9.5) | ND (9.2) |
| 1,1'-Biphenyl | - | - | ND (4.9) | ND (4.9) | ND (5.1) | ND (4.9) | ND (5.1) | ND (5.2) | ND (5.3) | ND (5.2) |
| Benzaldehyde | - | - | ND (8.9) | ND (8.9) | ND (9.2) | ND (8.8) | ND (9.2) | ND (9.4) | ND (9.7) | ND (9.4) |
| 2-Chloronaphthalene | - | - | ND (8.5) | ND (8.5) | ND (8.8) | ND (8.5) | ND (8.8) | ND (9.0) | ND (9.3) | ND (9.0) |
| 4-Chloroaniline | - | - | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (14) | ND (14) | ND (14) |
| Carbazole | - | - | ND (5.2) | ND (5.2) | ND (5.4) | ND (5.2) | ND (5.4) | ND (5.5) | ND (5.6) | ND (5.5) |
| Caprolactam | - | - | ND (14) ^a | ND (14) ^a | ND (15) ^a | ND (14) ^a | ND (15) ^a | ND (15) ^a | ND (15) ^a | ND (15) ^a |
| Chrysene | 56000 | 110000 | ND (11) | 36.4 | 17.5 J | 27.6 J | 53.4 | 26.7 J | ND (12) | ND (12) |
| bis(2-Chloroethoxy)methane | - | - | ND (7.7) | ND (7.7) | ND (7.9) | ND (7.6) | ND (7.9) | ND (8.1) | ND (8.3) | ND (8.1) |
| bis(2-Chloroethyl)ether | - | - | ND (15) | ND (15) | ND (16) | ND (15) | ND (16) | ND (16) | ND (17) | ND (16) |
| 2,2'-Oxybis(1-chloropropane) | - | - | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (14) | ND (14) | ND (14) |
| 4-Chlorophenyl phenyl ether | - | - | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (13) | ND (12) |
| 2,4-Dinitrotoluene | - | - | ND (11) | ND (11) | ND (11) | ND (11) | ND (11) | ND (12) | ND (12) | ND (12) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-16 | TT-SB-17 | TT-SB-18 | TT-SB-19 | TT-SB-20 | TT-SB-21 | TT-SB-22 | TT-SB-23 |
|--|-----------------------------------|-----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Sample Depth in feet bgs | | | 7.5-9.5 | 7.0-9.0 | 7.0-9.0 | 7.0-9.0 | 6.5-8.5 | 6.5-8.5 | 6.5-8.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/29/2021 | 11/29/2021 | 11/29/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 |
| 2,6-Dinitrotoluene | - | - | ND (18) | ND (18) | ND (19) | ND (18) | ND (19) | ND (19) | ND (20) | ND (19) |
| 3,3'-Dichlorobenzidine | - | - | ND (30) | ND (30) | ND (31) | ND (30) | ND (31) | ND (32) | ND (32) | ND (32) |
| 1,4-Dioxane | - | - | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (25) | ND (26) | ND (25) |
| Dibenzo(a,h)anthracene | 560 | 1100 | ND (16) | ND (16) | ND (16) | ND (16) | ND (16) | ND (17) | ND (17) | ND (17) |
| Dibenzofuran | 350000 | 1000000 | ND (15) | ND (15) | ND (15) | ND (14) | ND (15) | ND (15) | ND (16) | ND (15) |
| Di-n-butyl phthalate | - | - | ND (5.9) | ND (5.8) | ND (6.0) | ND (5.8) | ND (6.0) | ND (6.2) | ND (6.3) | ND (6.2) |
| Di-n-octyl phthalate | - | - | ND (8.9) | ND (8.9) | ND (9.2) | ND (8.9) | ND (9.2) | ND (9.4) | ND (9.7) | ND (9.4) |
| Diethyl phthalate | - | - | ND (7.6) | ND (7.6) | ND (7.9) | ND (7.6) | ND (7.9) | ND (8.1) | ND (8.3) | ND (8.1) |
| Dimethyl phthalate | - | - | ND (6.4) | ND (6.4) | ND (6.6) | ND (6.3) | ND (6.6) | ND (6.7) | ND (6.9) | ND (6.7) |
| bis(2-Ethylhexyl)phthalate | - | - | ND (8.4) | 19.3 J | ND (8.7) | ND (8.3) | ND (8.7) | ND (8.8) | ND (9.1) | ND (8.9) |
| Fluoranthene | 500000 | 1000000 | ND (16) | 67 | 35.2 J | 46.8 | 110 | 24.3 J | ND (17) | ND (17) |
| Fluorene | 500000 | 1000000 | ND (16) | ND (16) | ND (17) | ND (16) | ND (17) | ND (17) | ND (18) | ND (17) |
| Hexachlorobenzene | 6000 | 12000 | ND (9.1) | ND (9.1) | ND (9.4) | ND (9.0) | ND (9.4) | ND (9.6) | ND (9.8) | ND (9.6) |
| Hexachlorobutadiene | - | - | ND (14) | ND (14) | ND (15) | ND (14) | ND (15) | ND (15) | ND (16) | ND (15) |
| Hexachlorocyclopentadiene | - | - | ND (14) ^a | ND (14) ^a | ND (15) ^a | ND (14) ^a | ND (15) ^a | ND (15) ^a | ND (15) ^a | ND (15) ^a |
| Hexachloroethane | - | - | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (19) | ND (19) | ND (19) |
| Indeno(1,2,3-cd)pyrene | 5600 | 11000 | ND (17) | 22.5 J | ND (17) | ND (17) | 39.4 | 20.6 J | ND (18) | ND (18) |
| Isophorone | - | - | ND (7.7) | ND (7.7) | ND (7.9) | ND (7.6) | ND (7.9) | ND (8.1) | ND (8.3) | ND (8.1) |
| 2-Methylnaphthalene | - | - | ND (8.1) | ND (8.1) | ND (8.4) | ND (8.0) | ND (8.4) | ND (8.5) | ND (8.8) | ND (8.6) |
| 2-Nitroaniline | - | - | ND (8.5) | ND (8.5) | ND (8.7) | ND (8.4) | ND (8.7) | ND (8.9) | ND (9.2) | ND (8.9) |
| 3-Nitroaniline | - | - | ND (9.0) | ND (9.0) | ND (9.2) | ND (8.9) | ND (9.3) | ND (9.5) | ND (9.7) | ND (9.5) |
| 4-Nitroaniline | - | - | ND (9.3) | ND (9.3) | ND (9.6) | ND (9.2) | ND (9.6) | ND (9.8) | ND (10) | ND (9.8) |
| Naphthalene | 500000 | 1000000 | ND (10) | ND (10) | ND (10) | ND (10) | ND (10) | ND (11) | ND (11) | ND (11) |
| Nitrobenzene | - | - | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (15) | ND (15) | ND (15) |
| N-Nitroso-di-n-propylamine | - | - | ND (10) | ND (10) | ND (11) | ND (10) | ND (11) | ND (11) | ND (11) | ND (11) |
| N-Nitrosodiphenylamine | - | - | ND (13) | ND (13) | ND (14) | ND (13) | ND (14) | ND (14) | ND (14) | ND (14) |
| Phenanthrene | 500000 | 1000000 | ND (12) | 41.8 | 14.7 J | 31.1 J | 66.3 | 23.1 J | ND (13) | ND (13) |
| Pyrene | 500000 | 1000000 | ND (11) | 65.4 | 28.7 J | 46.1 | 91.4 | 25.1 J | ND (12) | ND (12) |
| 1,2,4,5-Tetrachlorobenzene | - | - | ND (9.1) | ND (9.1) | ND (9.4) | ND (9.0) | ND (9.4) | ND (9.6) | ND (9.9) | ND (9.6) |
| 1,4 Dioxane (ug/kg) | | | | | | | | | | |
| 1,4-Dioxane | - | - | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) |
| Pesticides and herbicides (ug/kg) | | | | | | | | | | |
| Aldrin | 680 | 1400 | ND (0.56) | ND (0.54) | ND (0.60) | ND (0.56) | ND (0.59) | ND (0.63) | ND (0.63) | ND (0.62) |
| alpha-BHC | 3400 | 6800 | ND (0.55) | ND (0.53) | ND (0.59) | ND (0.56) | ND (0.58) | ND (0.62) | ND (0.62) | ND (0.61) |
| beta-BHC | 3000 | 14000 | ND (0.61) | ND (0.59) | ND (0.65) | ND (0.62) | ND (0.65) | ND (0.69) | ND (0.69) | ND (0.68) |
| delta-BHC | 500000 | 1000000 | ND (0.65) | ND (0.63) | ND (0.69) | ND (0.66) | ND (0.69) | ND (0.74) | ND (0.74) | ND (0.72) |
| gamma-BHC (Lindane) | 9200 | 23000 | ND (0.50) | ND (0.48) | ND (0.53) | ND (0.50) | ND (0.53) | ND (0.57) | ND (0.56) | ND (0.55) |
| alpha-Chlordane | 24000 | 47000 | ND (0.55) | ND (0.53) | ND (0.58) | ND (0.55) | ND (0.58) | ND (0.62) | ND (0.62) | ND (0.61) |
| gamma-Chlordane | - | - | ND (0.31) | ND (0.30) | ND (0.33) | ND (0.31) | ND (0.33) | ND (0.35) | ND (0.35) | ND (0.34) |
| Dieldrin | 1400 | 28000 | ND (0.47) | ND (0.45) | ND (0.50) | ND (0.47) | ND (0.49) | ND (0.53) | ND (0.53) | ND (0.52) |
| 4,4'-DDD | 92000 | 180000 | ND (0.62) | ND (0.60) | ND (0.66) | ND (0.63) | ND (0.66) | ND (0.71) | ND (0.70) | ND (0.69) |
| 4,4'-DDE | 62000 | 120000 | ND (0.60) | ND (0.57) | ND (0.63) | ND (0.60) | ND (0.63) | ND (0.67) | ND (0.67) | ND (0.66) |
| 4,4'-DDT | 47000 | 94000 | ND (0.60) | ND (0.58) | ND (0.64) | ND (0.61) | ND (0.64) | ND (0.68) | ND (0.68) | ND (0.67) |
| Endrin | 89000 | 410000 | ND (0.53) | ND (0.51) | ND (0.56) | ND (0.53) | ND (0.56) | ND (0.60) | ND (0.59) | ND (0.58) |
| Endosulfan sulfate | 200000 | 920000 | ND (0.53) | ND (0.51) | ND (0.56) | ND (0.53) | ND (0.56) | ND (0.60) | ND (0.60) | ND (0.59) |
| Endrin aldehyde | - | - | ND (0.39) | ND (0.37) | ND (0.41) | ND (0.39) | ND (0.41) | ND (0.44) | ND (0.43) | ND (0.43) |
| Endosulfan-I | 200000 | 920000 | ND (0.39) | ND (0.38) | ND (0.42) | ND (0.39) | ND (0.41) | ND (0.44) | ND (0.44) | ND (0.43) |
| Endosulfan-II | 200000 | 920000 | ND (0.42) | ND (0.41) | ND (0.45) | ND (0.43) | ND (0.45) | ND (0.48) | ND (0.48) | ND (0.47) |
| Heptachlor | 15000 | 29000 | ND (0.59) | ND (0.56) | ND (0.62) | ND (0.59) | ND (0.62) | ND (0.66) | ND (0.66) | ND (0.65) |
| Heptachlor epoxide | - | - | ND (0.48) | ND (0.46) | ND (0.51) | ND (0.48) | ND (0.50) | ND (0.54) | ND (0.54) | ND (0.53) |
| Methoxychlor | - | - | ND (0.54) | ND (0.52) | ND (0.58) | ND (0.54) | ND (0.57) | ND (0.61) | ND (0.61) | ND (0.60) |
| Endrin ketone | - | - | ND (0.49) | ND (0.47) | ND (0.52) | ND (0.49) | ND (0.52) | ND (0.56) | ND (0.55) | ND (0.54) |
| Toxaphene | - | - | ND (16) | ND (15) | ND (17) | ND (16) | ND (17) | ND (18) | ND (18) | ND (18) |
| 2,4-D | - | - | ND (8.0) | ND (7.8) | ND (7.5) | ND (7.7) | ND (8.0) | ND (8.5) | ND (8.4) | ND (8.5) |
| 2,4,5-TP (Silvex) | 500000 | 1000000 | ND (2.0) | ND (2.0) | ND (1.9) | ND (1.9) | ND (2.0) | ND (2.2) | ND (2.1) | ND (2.1) |
| 2,4,5-T | - | - | ND (1.8) | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.8) | ND (1.9) | ND (1.9) | ND (1.9) |

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Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-16 | TT-SB-17 | TT-SB-18 | TT-SB-19 | TT-SB-20 | TT-SB-21 | TT-SB-22 | TT-SB-23 |
|--------------------------|-----------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Depth in feet bgs | | | 7.5-9.5 | 7.0-9.0 | 7.0-9.0 | 7.0-9.0 | 6.5-8.5 | 6.5-8.5 | 6.5-8.5 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 11/29/2021 | 11/29/2021 | 11/29/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 | 11/30/2021 |
| PCBs (ug/kg) | | | | | | | | | | |
| Aroclor 1016 | 1000 | 25000 | ND (16) | ND (15) | ND (17) | ND (16) | ND (17) | ND (18) | ND (18) | ND (18) |
| Aroclor 1221 | 1000 | 25000 | ND (21) | ND (20) | ND (22) | ND (21) | ND (22) | ND (24) | ND (24) | ND (23) |
| Aroclor 1232 | 1000 | 25000 | ND (22) | ND (21) | ND (23) | ND (22) | ND (23) | ND (25) | ND (24) | ND (24) |
| Aroclor 1242 | 1000 | 25000 | ND (14) | ND (13) | ND (15) | ND (14) | ND (15) | ND (16) | ND (16) | ND (15) |
| Aroclor 1248 | 1000 | 25000 | ND (30) | ND (29) | ND (32) | ND (30) | ND (32) | ND (34) | ND (34) | ND (34) |
| Aroclor 1254 | 1000 | 25000 | ND (18) | ND (18) | ND (19) | ND (18) | ND (19) | ND (21) | ND (21) | ND (20) |
| Aroclor 1260 | 1000 | 25000 | ND (14) | ND (14) | ND (15) | ND (15) | ND (15) | ND (16) | ND (16) | ND (16) |
| Aroclor 1268 | 1000 | 25000 | ND (14) | ND (14) | ND (15) | ND (14) | ND (15) | ND (16) | ND (16) | ND (16) |
| Aroclor 1262 | 1000 | 25000 | ND (22) | ND (21) | ND (24) | ND (22) | ND (23) | ND (25) | ND (25) | ND (25) |
| Metals (mg/kg) | | | | | | | | | | |
| Aluminum | - | - | 6240 | 4620 | 7770 | 4200 | 3720 | 9700 | 6780 | 6910 |
| Antimony | - | - | <2.3 | <2.2 | <2.2 | <2.2 | <2.2 | <2.3 | <2.3 | <2.3 |
| Arsenic | 16 | 16 | 2.4 | 2.4 | 7.7 | 2.9 | 5.3 | 4.4 | 4.6 | 3.4 |
| Barium | 400 | 10000 | 33.7 | 32.6 | 34.3 | <22 | 365 | 35.9 | 32.8 | 42.4 |
| Beryllium | 590 | 2700 | 0.51 | 0.44 | 0.6 | 0.33 | 0.35 | 0.58 | 0.54 | 0.52 |
| Cadmium | 9.3 | 60 | <0.57 | <0.55 | <0.55 | <0.56 | <0.56 | <0.58 | <0.58 | <0.58 |
| Calcium | - | - | 1340 | 1890 | 1960 | 632 | 1400 | 1100 | 2650 | 2540 |
| Chromium | - | - | 14.9 | 12.9 | 16.6 | 8.2 | 12.3 | 14.4 | 12.7 | 13.3 |
| Cobalt | - | - | 6.6 | 5.7 | 7.4 | <5.6 | <5.6 | 6.6 | 6.3 | 6 |
| Copper | 270 | 10000 | 11.7 | 13 | 19.1 | 11.6 | 61.1 | 12.8 | 13 | 10.4 |
| Iron | - | - | 11200 | 9690 | 17900 | 9140 | 11100 | 16100 | 13600 | 13300 |
| Lead | 1000 | 3900 | 8.7 | 22.2 | 33.9 | 20.4 | 377 | 16.4 | 15.2 | 11.7 |
| Magnesium | - | - | 2470 | 2050 | 2610 | 1290 | 1760 | 2300 | 2930 | 2490 |
| Manganese | 10000 | 10000 | 167 | 180 | 181 | 141 | 167 | 273 | 258 | 257 |
| Mercury | 2.8 | 5.7 | <0.037 | <0.033 | 0.081 | 0.64 | 0.24 | 0.067 | 0.071 | <0.037 |
| Nickel | 310 | 10000 | 23 | 21.8 | 16.8 | 10.2 | 17.9 | 13.8 | 15 | 14.2 |
| Potassium | - | - | <1100 | <1100 | 1420 | <1100 | <1100 | <1200 | 1200 | <1200 |
| Selenium | 1500 | 6800 | <2.3 | <2.2 | <2.2 | <2.2 | <2.2 | <2.3 | <2.3 | <2.3 |
| Silver | 1500 | 6800 | <0.57 | <0.55 | 0.66 | <0.56 | <0.56 | <0.58 | <0.58 | <0.58 |
| Sodium | - | - | <1100 | <1100 | <1100 | <1100 | <1100 | <1200 | <1200 | <1200 |
| Thallium | - | - | <1.1 | <1.1 | <1.1 | <1.1 | <1.1 | <1.2 | <1.2 | <1.2 |
| Vanadium | - | - | 21.2 | 17.5 | 22.9 | 13.9 | 15.4 | 21.2 | 20.4 | 19.2 |
| Zinc | 10000 | 10000 | 32.2 | 40.3 | 53.8 | 27.8 | 323 | 35.8 | 40.3 | 29.5 |
| Cyanide | 27 | 10000 | <0.32 | 0.32 | <0.31 | <0.28 | 0.6 | <0.28 | <0.24 | <0.32 |

bgs - Feet below the ground surface

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objective

ND - Not detected at or above the quantitation limit

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

- No criteria

NA - Not Analyzed

Values shaded blue detected above quantitation limit

Values shaded in orange exceeded the NYSDEC - Commercial Use SCO w/ CP-51

Values shaded in green exceeded the NYSDEC - Industrial Use SCO w/ CP-51

^a Associated CCV outside of control limits high, sample was ND.

^b Associated CCV outside of control limits high, sample was ND.

^c Sample prepped within holding time, but run out of holding time.

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-24 | TT-SB-25 | TT-SB-26 | TT-SB-27 | S DUP-02 | TT-SB-28 | TT-SB-29 | TT-SB-30 |
|---|-----------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Depth in feet bgs | | | 6.5-8.5 | 7.0-9.0 | 6.0-8.0 | 5.0-7.0 | | 7.0-9.0 | 4.0-6.0 | 7.0-9.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/2/2021 |
| Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| Acetone | 500000 | 1000000 | 19.1 | ND (3.7) | 23.6 | ND (3.8) | 14.9 | 9.7 | 4.7 J | 8.8 J |
| Benzene | 44000 | 89000 | ND (0.46) | ND (0.41) | ND (0.43) | ND (0.42) | ND (0.41) | ND (0.42) | ND (0.46) | ND (0.44) |
| Bromochloromethane | - | - | ND (0.56) | ND (0.51) | ND (0.53) | ND (0.52) | ND (0.51) | ND (0.52) | ND (0.57) | ND (0.55) |
| Bromodichloromethane | - | - | ND (0.43) | ND (0.39) | ND (0.40) | ND (0.40) | ND (0.39) | ND (0.40) | ND (0.43) | ND (0.42) |
| Bromoform | - | - | ND (1.4) | ND (1.2) | ND (1.3) | ND (1.3) | ND (1.2) | ND (1.3) | ND (1.4) | ND (1.3) |
| Bromomethane | - | - | ND (0.77) | ND (0.69) | ND (0.72) | ND (0.71) | ND (0.69) | ND (0.71) | ND (0.77) | ND (0.74) |
| 2-Butanone (MEK) | 500000 | 1000000 | ND (2.4) | ND (2.2) | 4.5 J | ND (2.3) | ND (2.2) | ND (2.3) | ND (2.5) | ND (2.4) |
| Carbon disulfide | - | - | ND (0.54) | ND (0.48) | 0.81 J | ND (0.50) | ND (0.49) | ND (0.50) | ND (0.54) | ND (0.52) |
| Carbon tetrachloride | 22000 | 44000 | ND (0.62) | ND (0.56) | ND (0.58) | ND (0.57) | ND (0.56) | ND (0.58) | ND (0.62) | ND (0.60) |
| Chlorobenzene | 500000 | 1000000 | ND (0.46) | ND (0.42) | ND (0.43) | ND (0.43) | ND (0.42) | ND (0.43) | ND (0.46) | ND (0.45) |
| Chloroethane | - | - | ND (0.59) | ND (0.53) | ND (0.56) | ND (0.55) | ND (0.54) | ND (0.55) | ND (0.60) | ND (0.58) |
| Chloroform | 350000 | 700000 | ND (0.52) | ND (0.47) | ND (0.49) | ND (0.48) | ND (0.47) | ND (0.48) | ND (0.52) | ND (0.51) |
| Chloromethane | - | - | ND (2.0) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (2.0) | ND (1.9) |
| Cyclohexane | - | - | ND (0.66) | ND (0.59) | ND (0.62) | ND (0.61) | ND (0.60) | ND (0.61) | ND (0.66) | ND (0.64) |
| 1,2-Dibromo-3-chloropropane | - | - | ND (0.70) | ND (0.63) | ND (0.65) | ND (0.64) | ND (0.63) | ND (0.65) | ND (0.70) | ND (0.68) |
| Dibromochloromethane | - | - | ND (0.56) | ND (0.51) | ND (0.53) | ND (0.52) | ND (0.51) | ND (0.52) | ND (0.57) | ND (0.55) |
| 1,2-Dibromoethane | - | - | ND (0.42) | ND (0.38) | ND (0.40) | ND (0.39) | ND (0.38) | ND (0.39) | ND (0.42) | ND (0.41) |
| 1,2-Dichlorobenzene | 500000 | 1000000 | ND (0.55) | ND (0.49) | ND (0.52) | ND (0.51) | ND (0.50) | ND (0.51) | ND (0.55) | ND (0.53) |
| 1,3-Dichlorobenzene | 280000 | 560000 | ND (0.50) | ND (0.45) | ND (0.47) | ND (0.46) | ND (0.45) | ND (0.46) | ND (0.50) | ND (0.48) |
| 1,4-Dichlorobenzene | 130000 | 250000 | ND (0.50) | ND (0.45) | ND (0.47) | ND (0.46) | ND (0.45) | ND (0.46) | ND (0.50) | ND (0.48) |
| Dichlorodifluoromethane | - | - | ND (0.73) | ND (0.66) | ND (0.69) | ND (0.68) | ND (0.66) | ND (0.68) | ND (0.73) | ND (0.71) |
| 1,1-Dichloroethane | 240000 | 480000 | ND (0.50) | ND (0.45) | ND (0.47) | ND (0.46) | ND (0.45) | ND (0.46) | ND (0.50) | ND (0.48) |
| 1,2-Dichloroethane | 30000 | 60000 | ND (0.47) | ND (0.43) | ND (0.44) | ND (0.44) | ND (0.43) | ND (0.44) | ND (0.47) | ND (0.46) |
| 1,1-Dichloroethene | 500000 | 1000000 | ND (0.66) | ND (0.59) | ND (0.62) | ND (0.61) | ND (0.59) | ND (0.61) | ND (0.66) | ND (0.64) |
| cis-1,2-Dichloroethene | 500000 | 1000000 | ND (0.84) | ND (0.76) | ND (0.79) | ND (0.78) | ND (0.76) | ND (0.78) | ND (0.85) | ND (0.82) |
| trans-1,2-Dichloroethene | 500000 | 1000000 | ND (0.61) | ND (0.55) | ND (0.58) | ND (0.57) | ND (0.55) | ND (0.57) | ND (0.62) | ND (0.59) |
| 1,2-Dichloropropane | - | - | ND (0.48) | ND (0.43) | ND (0.45) | ND (0.44) | ND (0.43) | ND (0.44) | ND (0.48) | ND (0.46) |
| cis-1,3-Dichloropropene | - | - | ND (0.48) | ND (0.43) | ND (0.45) | ND (0.44) | ND (0.43) | ND (0.44) | ND (0.48) | ND (0.46) |
| trans-1,3-Dichloropropene | - | - | ND (0.46) | ND (0.41) | ND (0.43) | ND (0.42) | ND (0.41) | ND (0.43) | ND (0.46) | ND (0.44) |
| Ethylbenzene | 390000 | 780000 | ND (0.46) | ND (0.41) | 0.90 J | ND (0.42) | ND (0.41) | ND (0.42) | ND (0.46) | ND (0.44) |
| Freon 113 | - | - | ND (2.7) | ND (2.4) | ND (2.5) | ND (2.5) | ND (2.4) | ND (2.5) | ND (2.7) | ND (2.6) |
| 2-Hexanone | - | - | ND (2.1) | ND (1.9) | ND (2.0) | ND (2.0) | ND (1.9) | ND (2.0) | ND (2.1) | ND (2.1) |
| Isopropylbenzene | - | - | ND (1.4) | ND (1.3) | 8 | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.4) | ND (1.4) |
| Methyl Acetate | - | - | ND (1.4) | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.4) | ND (1.4) |
| Methylcyclohexane | - | - | ND (0.88) | ND (0.79) | ND (0.83) | ND (0.81) | ND (0.79) | ND (0.82) | ND (0.88) | ND (0.85) |
| Methyl Tert Butyl Ether | 500000 | 1000000 | ND (0.47) | ND (0.42) | ND (0.44) | ND (0.44) | ND (0.43) | ND (0.44) | ND (0.47) | ND (0.46) |
| 4-Methyl-2-pentanone(MIBK) | - | - | ND (2.3) | ND (2.1) | ND (2.1) | ND (2.1) | ND (2.1) | ND (2.1) | ND (2.3) | ND (2.2) |
| Methylene chloride | 500000 | 1000000 | ND (2.6) | ND (2.4) | ND (2.5) | ND (2.4) | ND (2.4) | ND (2.4) | ND (2.6) | ND (2.5) |
| Styrene | - | - | ND (0.40) | ND (0.36) | ND (0.38) | ND (0.37) | ND (0.36) | ND (0.37) | ND (0.41) | ND (0.39) |
| 1,1,2,2-Tetrachloroethane | - | - | ND (0.60) | ND (0.54) | ND (0.57) | ND (0.56) | ND (0.54) | ND (0.56) | ND (0.60) | ND (0.58) |
| Tetrachloroethene | 150000 | 300000 | ND (0.58) | ND (0.52) | ND (0.55) | ND (0.54) | ND (0.53) | ND (0.54) | ND (0.59) | ND (0.56) |
| Toluene | 500000 | 1000000 | ND (0.53) | ND (0.48) | ND (0.50) | ND (0.49) | ND (0.48) | ND (0.49) | ND (0.53) | ND (0.51) |
| 1,2,3-Trichlorobenzene | - | - | ND (2.5) | ND (2.3) | ND (2.4) | ND (2.3) | ND (2.3) | ND (2.3) | ND (2.5) | ND (2.4) |
| 1,2,4-Trichlorobenzene | - | - | ND (2.5) | ND (2.3) | ND (2.4) | ND (2.3) | ND (2.3) | ND (2.3) | ND (2.5) | ND (2.4) |
| 1,1,1-Trichloroethane | 500000 | 1000000 | ND (0.49) | ND (0.44) | ND (0.46) | ND (0.45) | ND (0.44) | ND (0.45) | ND (0.49) | ND (0.47) |
| 1,1,2-Trichloroethane | - | - | ND (0.56) | ND (0.50) | ND (0.52) | ND (0.51) | ND (0.50) | ND (0.52) | ND (0.56) | ND (0.54) |
| Trichloroethene | 200000 | 400000 | ND (0.77) | ND (0.69) | ND (0.72) | ND (0.71) | ND (0.69) | ND (0.71) | ND (0.77) | ND (0.74) |
| Trichlorofluoromethane | - | - | ND (0.69) | ND (0.62) | ND (0.65) | ND (0.64) | ND (0.62) | ND (0.64) | ND (0.69) | ND (0.67) |
| Vinyl chloride | 13000 | 27000 | ND (0.48) | ND (0.44) | ND (0.45) | ND (0.45) | ND (0.44) | ND (0.45) | ND (0.49) | ND (0.47) |
| m,p-Xylene | - | - | ND (0.90) | ND (0.81) | 1.3 | ND (0.83) | ND (0.81) | ND (0.84) | ND (0.90) | ND (0.87) |
| o-Xylene | - | - | 0.74 J | ND (0.41) | 0.95 | ND (0.43) | ND (0.42) | ND (0.43) | ND (0.46) | ND (0.45) |
| Xylene (total) | 500000 | 1000000 | 0.74 J | ND (0.41) | 2.3 | ND (0.43) | ND (0.42) | ND (0.43) | ND (0.46) | ND (0.45) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-24 | TT-SB-25 | TT-SB-26 | TT-SB-27 | S DUP-02 | TT-SB-28 | TT-SB-29 | TT-SB-30 |
|--|-----------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Depth in feet bgs | | | 6.5-8.5 | 7.0-9.0 | 6.0-8.0 | 5.0-7.0 | | 7.0-9.0 | 4.0-6.0 | 7.0-9.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/2/2021 |
| PFAS Compounds (ug/kg) | | | | | | | | | | |
| Perfluorobutanoic acid | - | - | ND (0.42) | ND (0.42) | ND (0.42) | ND (0.42) | ND (0.42) | ND (0.43) | ND (0.41) | ND (0.43) |
| Perfluoropentanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorohexanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluoroheptanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorooctanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorononanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorodecanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluoroundecanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorododecanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorotridecanoic acid | - | - | ND (0.30) | ND (0.30) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.30) | ND (0.29) | ND (0.30) |
| Perfluorotetradecanoic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorobutanesulfonic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorohexanesulfonic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluoroheptanesulfonic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorooctanesulfonic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | 0.35 J | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Perfluorodecanesulfonic acid | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| PFOSA | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| MeFOSAA | - | - | ND (0.56) | ND (0.56) | ND (0.55) | ND (0.55) | ND (0.55) | ND (0.56) | ND (0.54) | ND (0.57) |
| EtFOSAA | - | - | ND (0.56) | ND (0.56) | ND (0.55) | ND (0.55) | ND (0.55) | ND (0.56) | ND (0.54) | ND (0.57) |
| 6:2 Fluorotelomer sulfonate | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| 8:2 Fluorotelomer sulfonate | - | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.28) |
| Semi Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| 2-Chlorophenol | - | - | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) |
| 4-Chloro-3-methyl phenol | - | - | ND (22) | ND (22) | ND (22) | ND (22) | ND (22) | ND (23) | ND (22) | ND (22) |
| 2,4-Dichlorophenol | - | - | ND (31) | ND (31) | ND (31) | ND (31) | ND (31) | ND (31) | ND (31) | ND (31) |
| 2,4-Dimethylphenol | - | - | ND (65) | ND (64) | ND (65) | ND (64) | ND (64) | ND (66) | ND (65) | ND (65) |
| 2,4-Dinitrophenol | - | - | ND (140) | ND (140) | ND (140) | ND (140) | ND (140) | ND (140) | ND (140) | ND (140) |
| 4,6-Dinitro-o-cresol | - | - | ND (39) | ND (39) | ND (39) | ND (39) | ND (39) | ND (40) | ND (39) | ND (39) |
| 2-Methylphenol | - | - | ND (23) | ND (23) | ND (23) | ND (23) | ND (23) | ND (24) | ND (23) | ND (23) |
| 3&4-Methylphenol | - | - | ND (30) | ND (30) | ND (30) | ND (30) | ND (30) | ND (30) | ND (30) | ND (30) |
| 2-Nitrophenol | - | - | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) |
| 4-Nitrophenol | - | - | ND (98) | ND (97) | ND (97) | ND (97) | ND (97) | ND (99) | ND (97) | ND (97) |
| Pentachlorophenol | 6700 | 55000 | ND (34) | ND (34) | ND (34) | ND (34) | ND (34) | ND (35) | ND (34) | ND (34) |
| Phenol | - | - | ND (19) | ND (19) | ND (19) | ND (19) | ND (19) | ND (19) | ND (19) | ND (19) |
| 2,3,4,6-Tetrachlorophenol | - | - | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) |
| 2,4,5-Trichlorophenol | - | - | ND (27) | ND (27) | ND (27) | ND (27) | ND (27) | ND (28) | ND (27) | ND (27) |
| 2,4,6-Trichlorophenol | - | - | ND (22) | ND (22) | ND (22) | ND (22) | ND (22) | ND (22) | ND (22) | ND (22) |
| Acenaphthene | 500000 | 1000000 | 32.0 J | 21.8 J | 3590 | ND (12) | 53.5 | ND (13) | ND (13) | ND (13) |
| Acenaphthylene | 500000 | 1000000 | 23.4 J | ND (18) | 25.6 J | ND (18) | 91 | ND (19) | ND (19) | ND (18) |
| Acetophenone | - | - | ND (7.9) | ND (7.8) | ND (7.8) | ND (7.8) | ND (7.8) | ND (7.9) | ND (7.8) | ND (7.8) |
| Anthracene | 500000 | 1000000 | 91.4 | 48 | 153 | ND (22) | 303 | ND (23) | ND (22) | 28.5 J |
| Atrazine | - | - | ND (16) | ND (15) | ND (16) | ND (15) | ND (15) | ND (16) | ND (16) | ND (16) |
| Benzo(a)anthracene | 5600 | 11000 | 381 | 97.6 | 96.4 | ND (10) | 1780 | ND (10) | 43.9 | 75.6 |
| Benzo(a)pyrene | 1000 | 1100 | 364 | 80.3 | 74.5 | ND (16) | 1560 | ND (17) | 33.8 J | 65.5 |
| Benzo(b)fluoranthene | 5600 | 11000 | 454 | 99.6 | 99.2 | ND (16) | 1940 | ND (16) | 50.4 | 81 |
| Benzo(g,h,i)perylene | 500000 | 1000000 | 258 | 48.4 | 55.6 | ND (18) | 892 | ND (18) | 18.2 J | 39.8 |
| Benzo(k)fluoranthene | 56000 | 110000 | 160 | 39.9 | 30.5 J | ND (17) | 690 | ND (17) | ND (17) | 28.7 J |
| 4-Bromophenyl phenyl ether | - | - | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) |
| Butyl benzyl phthalate | - | - | ND (8.9) | ND (8.8) | ND (8.9) | ND (8.8) | ND (8.8) | ND (9.0) | ND (8.9) | ND (8.9) |
| 1,1'-Biphenyl | - | - | ND (5.0) | ND (5.0) | 26.3 J | ND (5.0) | ND (5.0) | ND (5.1) | ND (5.0) | ND (5.0) |
| Benzaldehyde | - | - | ND (9.1) | ND (9.0) | ND (9.1) | ND (9.0) | ND (9.0) | ND (9.2) | ND (9.1) | ND (9.0) |
| 2-Chloronaphthalene | - | - | ND (8.7) | ND (8.6) | ND (8.7) | ND (8.6) | ND (8.6) | ND (8.8) | ND (8.7) | ND (8.6) |
| 4-Chloroaniline | - | - | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) |
| Carbazole | - | - | 28.4 J | 18.7 J | 96.6 | ND (5.2) | 45.3 J | ND (5.4) | ND (5.3) | 12.3 J |
| Caprolactam | - | - | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (15) | ND (14) | ND (14) |
| Chrysene | 56000 | 110000 | 381 | 91.2 | 98.9 | ND (11) | 1700 | ND (12) | 44 | 77.7 |
| bis(2-Chloroethoxy)methane | - | - | ND (7.8) | ND (7.7) | ND (7.8) | ND (7.7) | ND (7.7) | ND (7.9) | ND (7.8) | ND (7.8) |
| bis(2-Chloroethyl)ether | - | - | ND (16) | ND (16) | ND (16) | ND (16) | ND (16) | ND (16) | ND (16) | ND (16) |
| 2,2'-Oxybis(1-chloropropane) | - | - | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) |
| 4-Chlorophenyl phenyl ether | - | - | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) | ND (12) |
| 2,4-Dinitrotoluene | - | - | ND (11) | ND (11) | ND (11) | ND (11) | ND (11) | ND (11) | ND (11) | ND (11) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-24 | TT-SB-25 | TT-SB-26 | TT-SB-27 | S DUP-02 | TT-SB-28 | TT-SB-29 | TT-SB-30 |
|--|----------------------------------|----------------------------------|-------------------|------------------------|------------------|------------------------|------------------|------------------------|-----------|------------------------|
| Sample Depth in feet bgs | | | 6.5-8.5 | 7.0-9.0 | 6.0-8.0 | 5.0-7.0 | | 7.0-9.0 | 4.0-6.0 | 7.0-9.0 |
| Sampling Date | w/CP-51 (10/10)(6 NYCRR 375-6 | w/CP-51 (10/10)(6 NYCRR 375-6 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/2/2021 |
| 2,6-Dinitrotoluene | - | - | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (19) | ND (18) | ND (18) |
| 3,3'-Dichlorobenzidine | - | - | ND (31) | ND (30) | ND (30) | ND (30) | ND (30) | ND (31) | ND (30) | ND (30) |
| 1,4-Dioxane | - | - | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) | ND (24) |
| Dibenzo(a,h)anthracene | 560 | 1100 | 86.3 | 29.0 J | 32.6 J | ND (16) | 281 | ND (16) | 21.4 J | 27.0 J |
| Dibenzofuran | 350000 | 1000000 | 16.7 J | ND (15) | 1570 | ND (15) | 24.5 J | ND (15) | ND (15) | ND (15) |
| Di-n-butyl phthalate | - | - | ND (6.0) | ND (5.9) | ND (6.0) | ND (5.9) | ND (5.9) | ND (6.0) | ND (6.0) | ND (5.9) |
| Di-n-octyl phthalate | - | - | ND (9.1) | ND (9.0) | ND (9.1) | ND (9.0) | ND (9.0) | ND (9.2) | ND (9.1) | ND (9.0) |
| Diethyl phthalate | - | - | ND (7.8) | ND (7.7) | ND (7.8) | ND (7.7) | ND (7.7) | ND (7.9) | ND (7.8) | ND (7.7) |
| Dimethyl phthalate | - | - | ND (6.5) | ND (6.4) | ND (6.5) | ND (6.4) | ND (6.4) | ND (6.6) | ND (6.5) | ND (6.5) |
| bis(2-Ethylhexyl)phthalate | - | - | ND (8.6) | ND (8.5) | 68.6 J | ND (8.5) | ND (8.5) | ND (8.6) | ND (8.5) | ND (8.5) |
| Fluoranthene | 500000 | 1000000 | 752 | 221 | 415 | ND (16) | 3090 | ND (16) | 80.3 | 151 |
| Fluorene | 500000 | 1000000 | 26.9 J | 20.6 J | 1350 | ND (17) | 45.7 | ND (17) | ND (17) | ND (17) |
| Hexachlorobenzene | 6000 | 12000 | ND (9.3) | ND (9.2) | ND (9.2) | ND (9.2) | ND (9.2) | ND (9.3) | ND (9.2) | ND (9.2) |
| Hexachlorobutadiene | - | - | ND (15) | ND (15) | ND (15) | ND (15) | ND (15) | ND (15) | ND (15) | ND (15) |
| Hexachlorocyclopentadiene | - | - | ND (15) | ND (14) | ND (15) | ND (14) | ND (14) | ND (15) | ND (15) | ND (14) |
| Hexachloroethane | - | - | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) | ND (18) |
| Indeno(1,2,3-cd)pyrene | 5600 | 11000 | 311 | 76.4 | 76.1 | ND (17) | 1110 | ND (17) | 40.9 | 59 |
| Isophorone | - | - | ND (7.8) | ND (7.7) | ND (7.8) | ND (7.7) | ND (7.7) | ND (7.9) | ND (7.8) | ND (7.8) |
| 2-Methylnaphthalene | - | - | ND (8.3) | ND (8.2) | 446 | ND (8.2) | ND (8.2) | ND (8.3) | ND (8.3) | ND (8.2) |
| 2-Nitroaniline | - | - | ND (8.6) | ND (8.5) | ND (8.6) | ND (8.5) | ND (8.5) | ND (8.7) | ND (8.6) | ND (8.6) |
| 3-Nitroaniline | - | - | ND (9.1) | ND (9.1) | ND (9.1) | ND (9.0) | ND (9.0) | ND (9.2) | ND (9.1) | ND (9.1) |
| 4-Nitroaniline | - | - | ND (9.5) | ND (9.4) | ND (9.5) | ND (9.4) | ND (9.4) | ND (9.6) | ND (9.5) | ND (9.4) |
| Naphthalene | 500000 | 1000000 | ND (10) | ND (10) | 372 | ND (10) | 10.1 J | ND (10) | ND (10) | 11.7 J |
| Nitrobenzene | - | - | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) | ND (14) |
| N-Nitroso-di-n-propylamine | - | - | ND (11) | ND (10) | ND (11) | ND (10) | ND (10) | ND (11) | ND (11) | ND (10) |
| N-Nitrosodiphenylamine | - | - | ND (13) | ND (13) | ND (13) | ND (13) | ND (13) | ND (14) | ND (13) | ND (13) |
| Phenanthrene | 500000 | 1000000 | 362 | 208 | 1810 | ND (12) | 1050 | ND (12) | 36.8 J | 139 |
| Pyrene | 500000 | 1000000 | 801 | 187 | 328 | ND (12) | 3030 | ND (12) | 81.4 | 161 |
| 1,2,4,5-Tetrachlorobenzene | - | - | ND (9.3) | ND (9.2) | ND (9.3) | ND (9.2) | ND (9.2) | ND (9.4) | ND (9.3) | ND (9.2) |
| 1,4 Dioxane (ug/kg) | | | | | | | | | | |
| 1,4-Dioxane | - | - | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) | ND (1.8) |
| Pesticides and herbicides (ug/kg) | | | | | | | | | | |
| Aldrin | 680 | 1400 | 1.9 ^a | ND (0.55) ^b | ND (0.60) | ND (0.61) ^b | ND (0.56) | ND (0.57) ^b | ND (0.58) | ND (0.57) ^b |
| alpha-BHC | 3400 | 6800 | ND (0.53) | ND (0.54) ^b | 1.9 ^a | ND (0.60) ^b | ND (0.56) | ND (0.56) ^b | ND (0.57) | ND (0.56) ^b |
| beta-BHC | 3000 | 14000 | ND (0.59) | ND (0.60) ^b | ND (0.65) | ND (0.67) ^b | ND (0.62) | ND (0.62) ^b | ND (0.64) | ND (0.62) ^b |
| delta-BHC | 500000 | 1000000 | ND (0.63) | ND (0.64) ^b | ND (0.69) | ND (0.71) ^b | ND (0.66) | ND (0.66) ^b | ND (0.67) | ND (0.66) ^b |
| gamma-BHC (Lindane) | 9200 | 23000 | 2.3 ^a | ND (0.49) ^b | ND (0.53) | ND (0.55) ^b | 2.1 ^a | ND (0.51) ^b | ND (0.52) | ND (0.51) ^b |
| alpha-Chlordane | 24000 | 47000 | 2.8 | ND (0.54) ^b | ND (0.58) | ND (0.60) ^b | ND (0.55) | ND (0.55) ^b | ND (0.57) | ND (0.56) ^b |
| gamma-Chlordane | - | - | 2.4 ^a | ND (0.30) ^b | 2.0 ^a | ND (0.34) ^b | ND (0.31) | ND (0.31) ^b | ND (0.32) | ND (0.31) ^b |
| Dieldrin | 1400 | 28000 | 1.1 ^a | ND (0.46) ^b | ND (0.50) | ND (0.51) ^b | ND (0.47) | ND (0.47) ^b | ND (0.48) | ND (0.47) ^b |
| 4,4'-DDD | 92000 | 180000 | 5.8 | ND (0.61) ^b | 17.9 | ND (0.68) ^b | 3.2 | ND (0.63) ^b | ND (0.64) | ND (0.63) ^b |
| 4,4'-DDE | 62000 | 120000 | 5.7 | ND (0.58) ^b | 5.4 | ND (0.65) ^b | 3.1 | ND (0.60) ^b | ND (0.62) | ND (0.60) ^b |
| 4,4'-DDT | 47000 | 94000 | 3.5 ^c | ND (0.59) ^b | ND (0.64) | ND (0.66) ^b | ND (0.61) | ND (0.61) ^b | ND (0.62) | ND (0.61) ^b |
| Endrin | 89000 | 410000 | ND (0.51) | ND (0.52) ^b | ND (0.56) | ND (0.58) ^b | ND (0.53) | ND (0.53) ^b | ND (0.55) | ND (0.54) ^b |
| Endosulfan sulfate | 200000 | 920000 | ND (0.51) | ND (0.52) ^b | ND (0.56) | ND (0.58) ^b | ND (0.53) | ND (0.54) ^b | ND (0.55) | ND (0.54) ^b |
| Endrin aldehyde | - | - | ND (0.37) | ND (0.38) ^b | ND (0.41) | ND (0.42) ^b | ND (0.39) | ND (0.39) ^b | ND (0.40) | ND (0.39) ^b |
| Endosulfan-I | 200000 | 920000 | ND (0.38) | ND (0.38) ^b | ND (0.42) | ND (0.43) ^b | ND (0.39) | ND (0.40) ^b | ND (0.40) | ND (0.40) ^b |
| Endosulfan-II | 200000 | 920000 | 2.7 | ND (0.41) ^b | ND (0.45) | ND (0.46) ^b | ND (0.43) | ND (0.43) ^b | ND (0.44) | ND (0.43) ^b |
| Heptachlor | 15000 | 29000 | ND (0.56) | ND (0.57) ^b | ND (0.62) | ND (0.64) ^b | ND (0.59) | ND (0.59) ^b | ND (0.61) | ND (0.59) ^b |
| Heptachlor epoxide | - | - | 0.84 ^a | ND (0.47) ^b | ND (0.51) | ND (0.52) ^b | ND (0.48) | ND (0.48) ^b | ND (0.49) | ND (0.48) ^b |
| Methoxychlor | - | - | ND (0.52) | ND (0.53) ^b | ND (0.57) | ND (0.59) ^b | ND (0.54) | ND (0.55) ^b | ND (0.56) | ND (0.55) ^b |
| Endrin ketone | - | - | ND (0.47) | ND (0.48) | ND (0.52) | ND (0.54) | ND (0.49) | ND (0.50) | ND (0.51) | ND (0.50) |
| Toxaphene | - | - | ND (15) | ND (15) | ND (17) | ND (17) | ND (16) | ND (16) | ND (16) | ND (16) |
| 2,4-D | - | - | ND (7.9) | ND (7.4) | ND (7.5) | ND (8.2) | ND (7.4) | ND (7.8) | ND (7.8) | ND (7.7) |
| 2,4,5-TP (Silvex) | 500000 | 1000000 | ND (2.0) | ND (1.9) | ND (1.9) | ND (2.1) | ND (1.9) | ND (2.0) | ND (2.0) | ND (1.9) |
| 2,4,5-T | - | - | ND (1.8) | ND (1.7) | ND (1.7) | ND (1.8) | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-24 | TT-SB-25 | TT-SB-26 | TT-SB-27 | S DUP-02 | TT-SB-28 | TT-SB-29 | TT-SB-30 |
|--------------------------|-----------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Depth in feet bgs | | | 6.5-8.5 | 7.0-9.0 | 6.0-8.0 | 5.0-7.0 | | 7.0-9.0 | 4.0-6.0 | 7.0-9.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/1/2021 | 12/2/2021 |
| PCBs (ug/kg) | | | | | | | | | | |
| Aroclor 1016 | 1000 | 25000 | ND (17) | ND (15) | ND (17) | ND (17) | ND (17) | ND (16) | ND (16) | ND (16) |
| Aroclor 1221 | 1000 | 25000 | ND (22) | ND (21) | ND (22) | ND (23) | ND (22) | ND (21) | ND (22) | ND (21) |
| Aroclor 1232 | 1000 | 25000 | ND (23) | ND (21) | ND (23) | ND (24) | ND (23) | ND (22) | ND (22) | ND (22) |
| Aroclor 1242 | 1000 | 25000 | ND (15) | ND (14) | ND (15) | ND (15) | ND (15) | ND (14) | ND (14) | ND (14) |
| Aroclor 1248 | 1000 | 25000 | ND (32) | ND (30) | ND (32) | ND (33) | ND (32) | ND (31) | ND (31) | ND (31) |
| Aroclor 1254 | 1000 | 25000 | ND (19) | ND (18) | ND (19) | ND (20) | ND (19) | ND (18) | ND (19) | ND (19) |
| Aroclor 1260 | 1000 | 25000 | ND (15) | ND (14) | ND (15) | ND (16) | ND (15) | ND (15) | ND (15) | ND (15) |
| Aroclor 1268 | 1000 | 25000 | ND (15) | ND (14) | ND (15) | ND (16) | ND (15) | ND (14) | ND (15) | ND (15) |
| Aroclor 1262 | 1000 | 25000 | ND (23) | ND (22) | ND (24) | ND (24) | ND (23) | ND (22) | ND (23) | ND (23) |
| Metals (mg/kg) | | | | | | | | | | |
| Aluminum | - | - | 4260 | 6110 | 4270 | 7040 | 4840 | 5460 | 5590 | 5590 |
| Antimony | - | - | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.2 | <2.2 |
| Arsenic | 16 | 16 | 2.8 | 5.2 | 3.9 | 3.2 | 3.5 | 2.8 | 3.1 | 3.8 |
| Barium | 400 | 10000 | 49.9 | 37 | 81.7 | 35.1 | 71.5 | 29.5 | 31.1 | 69.2 |
| Beryllium | 590 | 2700 | 0.24 | 0.38 | 0.28 | 0.52 | 0.29 | 0.46 | 0.49 | 0.48 |
| Cadmium | 9.3 | 60 | <0.56 | <0.58 | <0.58 | <0.59 | <0.58 | <0.57 | <0.55 | <0.56 |
| Calcium | - | - | 35300 | 1080 | 29800 | 1120 | 25100 | 1780 | 1660 | 4280 |
| Chromium | - | - | 10.3 | 11.7 | 9.2 | 12.7 | 12.8 | 12.7 | 11.1 | 13.4 |
| Cobalt | - | - | <5.6 | <5.8 | <5.8 | <5.9 | <5.8 | <5.7 | <5.5 | <5.6 |
| Copper | 270 | 10000 | 12.6 | 37.5 | 10.7 | 11.3 | 15.4 | 9.3 | 16 | 126 |
| Iron | - | - | 9130 | 11200 | 9130 | 11900 | 9810 | 11700 | 11200 | 12900 |
| Lead | 1000 | 3900 | 87.1 | 55.2 | 53.6 | 25 | 115 | 16.1 | 13.4 | 164 |
| Magnesium | - | - | 7890 | 2180 | 8370 | 2080 | 6320 | 3260 | 2430 | 2720 |
| Manganese | 10000 | 10000 | 193 | 239 | 582 | 232 | 195 | 301 | 276 | 174 |
| Mercury | 2.8 | 5.7 | 0.24 | 0.079 | 0.06 | <0.029 | 0.13 | <0.035 | 0.072 | 0.26 |
| Nickel | 310 | 10000 | 17.2 | 14.5 | 12.6 | 13.4 | 16.7 | 19.8 | 13.4 | 24.3 |
| Potassium | - | - | <1100 | <1200 | <1200 | <1200 | <1200 | 1100 | 1100 | 1460 |
| Selenium | 1500 | 6800 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.2 | <2.2 |
| Silver | 1500 | 6800 | <0.56 | <0.58 | <0.58 | <0.59 | <0.58 | <0.57 | <0.55 | <0.56 |
| Sodium | - | - | <1100 | <1200 | <1200 | <1200 | <1200 | <1100 | <1100 | <1100 |
| Thallium | - | - | <1.1 | <1.2 | <1.2 | <1.2 | <1.2 | <1.1 | <1.1 | <1.1 |
| Vanadium | - | - | 15.1 | 17.4 | 21.4 | 21.1 | 15.1 | 18.6 | 17 | 19.6 |
| Zinc | 10000 | 10000 | 48.5 | 50.9 | 77 | 35.8 | 69.4 | 34.2 | 32.3 | 100 |
| Cyanide | 27 | 10000 | <0.23 | 1.9 | <0.23 | <0.23 | <0.23 | <0.22 | <0.33 | <0.27 |

bgs - Feet below the ground surface

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objective

ND - Not detected at or above the quantitation limit

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

- No criteria

NA - Not Analyzed

Values shaded blue detected above quantitation limit

Values shaded in orange exceeded the NYSDEC - Commercial Use SCO w/ CP-51

Values shaded in green exceeded the NYSDEC - Industrial Use SCO w/ CP-51

^a Associated CCV outside of control limits high, sample was ND.

^b Associated CCV outside of control limits high, sample was ND.

^c Sample prepped within holding time, but run out of holding time.

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-31 | TT-SB-32 | TT-SB-33 | TT-SB-34 | TT-SB-35 | TT-SB-36 | TT-SB-37 | TT-SB-38 |
|---|-----------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|
| Sample Depth in feet bgs | | | 6.0-8.0 | 7.0-9.0 | 4.5-6.5 | 4.0-6.0 | 3.0-5.0 | 6.0-8.0 | 7.0-9.0 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/2/2021 | 12/2/2021 | 12/2/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/6/2021 |
| Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| Acetone | 500000 | 1000000 | 4.3 J | ND (3.7) | 17 | ND (3.9) | ND (4.2) | ND (4.3) | ND (4.0) | 11.5 J |
| Benzene | 44000 | 89000 | ND (0.38) | ND (0.41) | ND (0.45) | ND (0.43) | ND (0.46) | ND (0.48) | ND (0.44) | ND (0.54) |
| Bromochloromethane | - | - | ND (0.47) | ND (0.50) | ND (0.56) | ND (0.53) | ND (0.57) | ND (0.59) | ND (0.55) | ND (0.66) |
| Bromodichloromethane | - | - | ND (0.36) | ND (0.39) | ND (0.43) | ND (0.40) | ND (0.44) | ND (0.45) | ND (0.42) | ND (0.51) |
| Bromoform | - | - | ND (1.1) | ND (1.2) | ND (1.4) | ND (1.3) | ND (1.4) | ND (1.4) | ND (1.3) | ND (1.6) |
| Bromomethane | - | - | ND (0.65) | ND (0.69) | ND (0.76) | ND (0.72) | ND (0.78) | ND (0.80) | ND (0.74) | ND (0.90) |
| 2-Butanone (MEK) | 500000 | 1000000 | ND (2.1) | ND (2.2) | ND (2.4) | ND (2.3) | ND (2.5) | ND (2.5) | ND (2.4) | ND (2.9) |
| Carbon disulfide | - | - | 0.57 J | ND (0.48) | ND (0.53) | ND (0.50) | ND (0.55) | ND (0.56) | ND (0.52) | ND (0.63) ^a |
| Carbon tetrachloride | 22000 | 44000 | ND (0.52) | ND (0.56) | ND (0.61) | ND (0.58) | ND (0.63) | ND (0.65) | ND (0.60) | ND (0.73) |
| Chlorobenzene | 500000 | 1000000 | ND (0.39) | ND (0.41) | ND (0.46) | ND (0.43) | ND (0.47) | ND (0.48) | ND (0.45) | ND (0.54) |
| Chloroethane | - | - | ND (0.50) | ND (0.53) | ND (0.59) | ND (0.56) | ND (0.60) | ND (0.62) | ND (0.58) | ND (0.70) |
| Chloroform | 350000 | 700000 | ND (0.44) | ND (0.47) | ND (0.52) | ND (0.49) | ND (0.53) | ND (0.54) | ND (0.51) | ND (0.61) |
| Chloromethane | - | - | ND (1.7) | ND (1.8) | ND (1.9) | ND (1.8) | ND (2.0) | ND (2.1) | ND (1.9) | ND (2.3) |
| Cyclohexane | - | - | ND (0.55) | ND (0.59) | ND (0.65) | ND (0.62) | ND (0.67) | ND (0.69) | ND (0.64) | ND (0.78) |
| 1,2-Dibromo-3-chloropropane | - | - | ND (0.59) | ND (0.63) | ND (0.69) | ND (0.65) | ND (0.71) | ND (0.73) | ND (0.68) | ND (0.82) |
| Dibromochloromethane | - | - | ND (0.47) | ND (0.50) | ND (0.56) | ND (0.53) | ND (0.57) | ND (0.59) | ND (0.55) | ND (0.66) |
| 1,2-Dibromoethane | - | - | ND (0.36) | ND (0.38) | ND (0.42) | ND (0.40) | ND (0.43) | ND (0.44) | ND (0.41) | ND (0.50) |
| 1,2-Dichlorobenzene | 500000 | 1000000 | ND (0.46) | ND (0.49) | ND (0.54) | ND (0.51) | ND (0.56) | ND (0.57) | ND (0.53) | ND (0.65) |
| 1,3-Dichlorobenzene | 280000 | 560000 | ND (0.42) | ND (0.45) | ND (0.49) | ND (0.47) | ND (0.51) | ND (0.52) | ND (0.48) | ND (0.59) |
| 1,4-Dichlorobenzene | 130000 | 250000 | ND (0.42) | ND (0.44) | ND (0.49) | ND (0.47) | ND (0.50) | ND (0.52) | ND (0.48) | ND (0.58) |
| Dichlorodifluoromethane | - | - | ND (0.61) | ND (0.65) | ND (0.72) | ND (0.69) | ND (0.74) | ND (0.76) | ND (0.71) | ND (0.86) |
| 1,1-Dichloroethane | 240000 | 480000 | ND (0.42) | ND (0.45) | ND (0.49) | ND (0.47) | ND (0.50) | ND (0.52) | ND (0.48) | ND (0.59) |
| 1,2-Dichloroethane | 30000 | 60000 | ND (0.40) | ND (0.42) | ND (0.47) | ND (0.44) | ND (0.48) | ND (0.49) | ND (0.46) | ND (0.56) |
| 1,1-Dichloroethene | 500000 | 1000000 | ND (0.55) | ND (0.59) | ND (0.65) | ND (0.62) | ND (0.67) | ND (0.69) | ND (0.64) | ND (0.78) ^a |
| cis-1,2-Dichloroethene | 500000 | 1000000 | ND (0.71) | ND (0.76) | ND (0.83) | ND (0.79) | ND (0.86) | ND (0.88) | ND (0.82) | ND (0.99) |
| trans-1,2-Dichloroethene | 500000 | 1000000 | ND (0.52) | ND (0.55) | ND (0.61) | ND (0.58) | ND (0.62) | ND (0.64) | ND (0.59) | ND (0.72) |
| 1,2-Dichloropropane | - | - | ND (0.40) | ND (0.43) | ND (0.47) | ND (0.45) | ND (0.48) | ND (0.50) | ND (0.46) | ND (0.56) |
| cis-1,3-Dichloropropene | - | - | ND (0.40) | ND (0.43) | ND (0.47) | ND (0.45) | ND (0.48) | ND (0.50) | ND (0.46) | ND (0.56) |
| trans-1,3-Dichloropropene | - | - | ND (0.39) | ND (0.41) | ND (0.45) | ND (0.43) | ND (0.47) | ND (0.48) | ND (0.44) | ND (0.54) |
| Ethylbenzene | 390000 | 780000 | ND (0.38) | ND (0.41) | ND (0.45) | ND (0.43) | ND (0.46) | ND (0.47) | ND (0.44) | ND (0.54) |
| Freon 113 | - | - | ND (2.3) | ND (2.4) | ND (2.7) | ND (2.5) | ND (2.7) | ND (2.8) | ND (2.6) | ND (3.2) |
| 2-Hexanone | - | - | ND (1.8) | ND (1.9) | ND (2.1) | ND (2.0) | ND (2.2) | ND (2.2) | ND (2.1) | ND (2.5) |
| Isopropylbenzene | - | - | ND (1.2) | ND (1.3) | ND (1.4) | ND (1.3) | ND (1.4) | ND (1.5) | ND (1.4) | ND (1.7) |
| Methyl Acetate | - | - | ND (1.2) | ND (1.3) | ND (1.4) | ND (1.3) | ND (1.4) | ND (1.5) | ND (1.4) | ND (1.6) |
| Methylcyclohexane | - | - | ND (0.74) | ND (0.79) | ND (0.87) | ND (0.82) | ND (0.89) | ND (0.92) | ND (0.85) | ND (1.0) |
| Methyl Tert Butyl Ether | 500000 | 1000000 | ND (0.40) | ND (0.42) | ND (0.47) | ND (0.44) | ND (0.48) | ND (0.49) | ND (0.46) | ND (0.56) |
| 4-Methyl-2-pentanone(MIBK) | - | - | ND (1.9) | ND (2.0) | ND (2.3) | ND (2.1) | ND (2.3) | ND (2.4) | ND (2.2) | ND (2.7) |
| Methylene chloride | 500000 | 1000000 | ND (2.2) | ND (2.4) | ND (2.6) | ND (2.5) | ND (2.7) | ND (2.7) | 3.2 J | ND (3.1) |
| Styrene | - | - | ND (0.34) | ND (0.36) | ND (0.40) | ND (0.38) | ND (0.41) | ND (0.42) | ND (0.39) | ND (0.48) |
| 1,1,2,2-Tetrachloroethane | - | - | ND (0.51) | ND (0.54) | ND (0.60) | ND (0.56) | ND (0.61) | ND (0.63) | ND (0.58) | ND (0.71) |
| Tetrachloroethene | 150000 | 300000 | ND (0.49) | ND (0.52) | ND (0.58) | ND (0.55) | ND (0.59) | ND (0.61) | ND (0.56) | ND (0.69) |
| Toluene | 500000 | 1000000 | ND (0.44) | ND (0.47) | ND (0.52) | ND (0.49) | ND (0.54) | ND (0.55) | ND (0.51) | ND (0.62) |
| 1,2,3-Trichlorobenzene | - | - | ND (2.1) | ND (2.3) | ND (2.5) | ND (2.4) | ND (2.5) | ND (2.6) | ND (2.4) | ND (3.0) |
| 1,2,4-Trichlorobenzene | - | - | ND (2.1) | ND (2.3) | ND (2.5) | ND (2.4) | ND (2.5) | ND (2.6) | ND (2.4) | ND (3.0) |
| 1,1,1-Trichloroethane | 500000 | 1000000 | ND (0.41) | ND (0.44) | ND (0.48) | ND (0.46) | ND (0.49) | ND (0.51) | ND (0.47) | ND (0.57) |
| 1,1,2-Trichloroethane | - | - | ND (0.47) | ND (0.50) | ND (0.55) | ND (0.52) | ND (0.56) | ND (0.58) | ND (0.54) | ND (0.66) |
| Trichloroethene | 200000 | 400000 | ND (0.64) | ND (0.69) | ND (0.76) | ND (0.72) | ND (0.78) | ND (0.80) | ND (0.74) | ND (0.90) |
| Trichlorofluoromethane | - | - | ND (0.58) | ND (0.62) | ND (0.68) | ND (0.64) | ND (0.70) | ND (0.72) | ND (0.67) | ND (0.81) |
| Vinyl chloride | 13000 | 27000 | ND (0.41) | ND (0.43) | ND (0.48) | ND (0.45) | ND (0.49) | ND (0.50) | ND (0.47) | ND (0.57) |
| m,p-Xylene | - | - | ND (0.76) | ND (0.81) | ND (0.89) | ND (0.84) | ND (0.91) | ND (0.94) | ND (0.87) | ND (1.1) |
| o-Xylene | - | - | ND (0.39) | ND (0.41) | ND (0.46) | ND (0.43) | ND (0.47) | ND (0.48) | ND (0.45) | ND (0.54) |
| Xylene (total) | 500000 | 1000000 | ND (0.39) | ND (0.41) | ND (0.46) | ND (0.43) | ND (0.47) | ND (0.48) | ND (0.45) | ND (0.54) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-31 | TT-SB-32 | TT-SB-33 | TT-SB-34 | TT-SB-35 | TT-SB-36 | TT-SB-37 | TT-SB-38 |
|--|-----------------------------------|-----------------------------------|-----------|-----------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample Depth in feet bgs | | | 6.0-8.0 | 7.0-9.0 | 4.5-6.5 | 4.0-6.0 | 3.0-5.0 | 6.0-8.0 | 7.0-9.0 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/2/2021 | 12/2/2021 | 12/2/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/6/2021 |
| PFAS Compounds (ug/kg) | | | | | | | | | | |
| Perfluorobutanoic acid | - | - | ND (0.42) | ND (0.45) | ND (0.42) | ND (0.47) | ND (0.40) | ND (0.41) | ND (0.39) | ND (0.44) |
| Perfluoropentanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorohexanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluoroheptanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorooctanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorononanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorodecanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluoroundecanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorododecanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorotridecanoic acid | - | - | ND (0.29) | ND (0.31) | ND (0.30) | ND (0.33) | ND (0.28) | ND (0.29) | ND (0.27) | ND (0.31) |
| Perfluorotetradecanoic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorobutanesulfonic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorohexanesulfonic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluoroheptanesulfonic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorooctanesulfonic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Perfluorodecanesulfonic acid | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| PFOSA | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| MeFOSAA | - | - | ND (0.55) | ND (0.59) | ND (0.56) | ND (0.62) | ND (0.53) | ND (0.55) | ND (0.51) | ND (0.58) |
| EtFOSAA | - | - | ND (0.55) | ND (0.59) | ND (0.56) | ND (0.62) | ND (0.53) | ND (0.55) | ND (0.51) | ND (0.58) |
| 6:2 Fluorotelomer sulfonate | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| 8:2 Fluorotelomer sulfonate | - | - | ND (0.27) | ND (0.29) | ND (0.28) | ND (0.31) | ND (0.27) | ND (0.27) | ND (0.26) | ND (0.29) |
| Semi Volatile Organic Compounds (ug/kg) | | | | | | | | | | |
| 2-Chlorophenol | - | - | ND (18) | ND (19) | ND (17) | ND (19) | ND (34) | ND (17) | ND (17) | ND (18) |
| 4-Chloro-3-methyl phenol | - | - | ND (22) | ND (23) | ND (22) | ND (24) | ND (43) | ND (21) | ND (21) | ND (23) |
| 2,4-Dichlorophenol | - | - | ND (31) | ND (32) | ND (30) | ND (34) | ND (60) | ND (30) | ND (29) | ND (32) |
| 2,4-Dimethylphenol | - | - | ND (64) | ND (68) | ND (63) | ND (70) | ND (120) | ND (62) | ND (61) | ND (66) |
| 2,4-Dinitrophenol | - | - | ND (140) | ND (140) | ND (130) | ND (150) ^a | ND (260) ^b | ND (130) ^a | ND (130) ^a | ND (140) ^b |
| 4,6-Dinitro-o-cresol | - | - | ND (39) | ND (41) | ND (38) | ND (42) ^a | ND (75) ^b | ND (37) ^a | ND (37) ^a | ND (40) ^b |
| 2-Methylphenol | - | - | ND (23) | ND (24) | ND (23) | ND (25) | ND (45) | ND (22) | ND (22) | ND (24) |
| 3&4-Methylphenol | - | - | ND (30) | ND (31) | ND (29) | ND (32) | ND (57) | ND (29) | ND (28) | ND (30) |
| 2-Nitrophenol | - | - | ND (24) | ND (25) | ND (23) | ND (26) ^a | ND (46) ^b | ND (23) ^a | ND (23) ^a | ND (24) ^b |
| 4-Nitrophenol | - | - | ND (97) | ND (100) | ND (94) | ND (100) | ND (190) | ND (94) | ND (92) | ND (99) |
| Pentachlorophenol | 6700 | 55000 | ND (34) | ND (36) | ND (33) | ND (37) | ND (66) | ND (33) | ND (32) | ND (35) |
| Phenol | - | - | ND (19) | ND (20) | ND (18) | ND (21) | ND (36) | ND (18) | ND (18) | ND (19) |
| 2,3,4,6-Tetrachlorophenol | - | - | ND (24) | ND (25) | ND (23) | ND (26) ^a | ND (46) ^b | ND (23) ^a | ND (23) ^a | ND (25) ^b |
| 2,4,5-Trichlorophenol | - | - | ND (27) | ND (28) | ND (26) | ND (29) | ND (52) | ND (26) | ND (26) | ND (28) |
| 2,4,6-Trichlorophenol | - | - | ND (22) | ND (23) | ND (21) | ND (23) | ND (42) | ND (21) | ND (21) | ND (22) |
| Acenaphthene | 500000 | 1000000 | 17.8 J | ND (13) | 27.8 J | 72.5 | 83 | ND (12) | ND (12) | 233 |
| Acenaphthylene | 500000 | 1000000 | ND (18) | ND (19) | 90.9 | 43.2 | 73.3 | ND (18) | ND (18) | 78.1 |
| Acetophenone | - | - | ND (7.8) | ND (8.2) | ND (7.6) | ND (8.4) ^a | ND (15) ^b | ND (7.5) ^a | ND (7.4) ^a | ND (8.0) ^b |
| Anthracene | 500000 | 1000000 | 51.5 | ND (23) | 146 | 294 | 274 | ND (21) | ND (21) | 619 |
| Atrazine | - | - | ND (15) | ND (16) | ND (15) | ND (17) ^a | ND (30) ^c | ND (15) ^a | ND (15) ^a | ND (16) ^b |
| Benzo(a)anthracene | 5600 | 11000 | 381 | 14.9 J | 746 | 1020 | 852 | 36.7 | 37.5 | 1120 |
| Benzo(a)pyrene | 1000 | 1100 | 461 | ND (17) | 965 | 870 | 762 | 36.4 | 35.2 | 1130 |
| Benzo(b)fluoranthene | 5600 | 11000 | 568 | ND (17) | 985 | 994 | 986 | 39.5 | 39.3 | 1470 |
| Benzo(g,h,i)perylene | 500000 | 1000000 | 356 | ND (19) | 593 | 504 | 474 | 21.6 J | 21.9 J | 664 |
| Benzo(k)fluoranthene | 56000 | 110000 | 204 | ND (18) | 361 | 406 | 403 | 17.7 J | ND (16) | 570 |
| 4-Bromophenyl phenyl ether | - | - | ND (14) | ND (15) | ND (14) | ND (15) | ND (27) | ND (14) | ND (13) | ND (14) |
| Butyl benzyl phthalate | - | - | ND (8.8) | ND (9.3) | ND (8.6) | ND (9.6) | ND (17) | ND (8.5) | ND (8.4) | ND (9.0) |
| 1,1'-Biphenyl | - | - | ND (5.0) | ND (5.2) | 5.5 J | 12.3 J | 10.5 J | ND (4.8) | ND (4.7) | 44.4 J |
| Benzaldehyde | - | - | ND (9.0) | ND (9.4) | ND (8.8) | ND (9.7) | ND (17) | ND (8.7) | ND (8.6) | ND (9.2) |
| 2-Chloronaphthalene | - | - | ND (8.6) | ND (9.0) | ND (8.4) | ND (9.3) | ND (17) | ND (8.3) | ND (8.2) | ND (8.8) |
| 4-Chloroaniline | - | - | ND (13) | ND (14) | ND (13) | ND (14) | ND (25) | ND (13) | ND (12) | ND (13) |
| Carbazole | - | - | 7.5 J | ND (5.5) | 15.7 J | 71.5 J | 93.8 J | ND (5.1) | ND (5.0) | 293 |
| Caprolactam | - | - | ND (14) | ND (15) | ND (14) | ND (16) ^a | ND (28) | ND (14) ^a | ND (14) ^a | ND (15) |
| Chrysene | 56000 | 110000 | 362 | ND (12) | 702 | 1140 | 862 | 34.2 J | 29.9 J | 1150 |
| bis(2-Chloroethoxy)methane | - | - | ND (7.7) | ND (8.1) | ND (7.6) | ND (8.4) | ND (15) | ND (7.5) | ND (7.4) | ND (7.9) |
| bis(2-Chloroethyl)ether | - | - | ND (16) | ND (16) | ND (15) | ND (17) | ND (30) | ND (15) | ND (15) | ND (16) |
| 2,2'-Oxybis(1-chloropropane) | - | - | ND (13) | ND (14) | ND (13) | ND (14) | ND (25) | ND (13) | ND (12) | ND (13) |
| 4-Chlorophenyl phenyl ether | - | - | ND (12) | ND (12) | ND (11) | ND (13) | ND (23) | ND (11) | ND (11) | ND (12) |
| 2,4-Dinitrotoluene | - | - | ND (11) | ND (12) | ND (11) | ND (12) ^a | ND (22) ^b | ND (11) ^a | ND (11) ^a | ND (11) ^b |

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Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-31 | TT-SB-32 | TT-SB-33 | TT-SB-34 | TT-SB-35 | TT-SB-36 | TT-SB-37 | TT-SB-38 |
|--|-----------------------------------|-----------------------------------|-------------------|------------------------|------------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| Sample Depth in feet bgs | | | 6.0-8.0 | 7.0-9.0 | 4.5-6.5 | 4.0-6.0 | 3.0-5.0 | 6.0-8.0 | 7.0-9.0 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/2/2021 | 12/2/2021 | 12/2/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/6/2021 |
| 2,6-Dinitrotoluene | - | - | ND (18) | ND (19) | ND (18) | ND (20) | ND (35) | ND (18) | ND (17) | ND (19) |
| 3,3'-Dichlorobenzidine | - | - | ND (30) | ND (32) | ND (29) | ND (33) | ND (58) | ND (29) | ND (29) | ND (31) |
| 1,4-Dioxane | - | - | ND (24) | ND (25) | ND (23) | ND (26) | ND (46) | ND (23) | ND (23) | ND (24) |
| Dibenzo(a,h)anthracene | 560 | 1100 | 104 | ND (17) | 157 | 145 | 161 | ND (15) | ND (15) | 219 |
| Dibenzofuran | 350000 | 1000000 | ND (15) | ND (15) | 34.7 J | 68.0 J | 55.2 J | ND (14) | ND (14) | 237 |
| Di-n-butyl phthalate | - | - | ND (5.9) | ND (6.2) | ND (5.8) | 21.2 JB | ND (11) | 21.1 JB | 42.5 JB | 13.6 JB |
| Di-n-octyl phthalate | - | - | ND (9.0) | ND (9.5) | ND (8.8) | ND (9.8) | ND (17) | ND (8.7) | ND (8.6) | ND (9.2) |
| Diethyl phthalate | - | - | ND (7.7) | ND (8.1) | ND (7.5) | ND (8.4) | ND (15) | ND (7.5) | ND (7.3) | ND (7.9) |
| Dimethyl phthalate | - | - | ND (6.4) | ND (6.8) | ND (6.3) | ND (7.0) | ND (12) | ND (6.2) | ND (6.1) | ND (6.6) |
| bis(2-Ethylhexyl)phthalate | - | - | 64.1 J | ND (8.9) | ND (8.3) | 57.6 J | 230 | 50.9 J | 39.8 J | 56.0 J |
| Fluoranthene | 500000 | 1000000 | 545 | 17.2 J | 1200 | 1760 | 1760 | 57.2 | 53.4 | 2170 |
| Fluorene | 500000 | 1000000 | ND (17) | ND (17) | 35.8 | 56.1 | 84.3 | ND (16) | ND (16) | 322 |
| Hexachlorobenzene | 6000 | 12000 | ND (9.2) | ND (9.6) | ND (8.9) | ND (9.9) | ND (18) | ND (8.9) | ND (8.7) | ND (9.4) |
| Hexachlorobutadiene | - | - | ND (15) | ND (15) | ND (14) | ND (16) | ND (28) ^b | ND (14) | ND (14) | ND (15) ^b |
| Hexachlorocyclopentadiene | - | - | ND (14) | ND (15) | ND (14) | ND (16) ^a | ND (28) | ND (14) ^a | ND (14) ^a | ND (15) |
| Hexachloroethane | - | - | ND (18) | ND (19) | ND (18) | ND (19) | ND (35) | ND (17) | ND (17) | ND (18) |
| Indeno(1,2,3-cd)pyrene | 5600 | 11000 | 429 | ND (18) | 735 | 579 | 559 | 23.8 J | 23.6 J | 806 |
| Isophorone | - | - | ND (7.7) | ND (8.1) | ND (7.6) | ND (8.4) | ND (15) | ND (7.5) | ND (7.4) | ND (7.9) |
| 2-Methylnaphthalene | - | - | ND (8.2) | ND (8.6) | 8.7 J | 34.1 J | 28.8 J | ND (7.9) | ND (7.8) | 157 |
| 2-Nitroaniline | - | - | ND (8.5) | ND (9.0) | ND (8.3) | ND (9.3) ^a | ND (16) ^b | ND (8.3) ^a | ND (8.1) ^a | ND (8.7) ^b |
| 3-Nitroaniline | - | - | ND (9.0) | ND (9.5) | ND (8.8) | ND (9.8) | ND (17) | ND (8.8) | ND (8.6) | ND (9.3) |
| 4-Nitroaniline | - | - | ND (9.4) | ND (9.8) | ND (9.2) | ND (10) | ND (18) | ND (9.1) | ND (8.9) | ND (9.6) |
| Naphthalene | 500000 | 1000000 | ND (10) | ND (11) | 23.7 J | 72.9 | 32.0 J | ND (9.9) | ND (9.7) | 273 |
| Nitrobenzene | - | - | ND (14) | ND (15) | ND (14) | ND (15) | ND (27) | ND (14) | ND (13) | ND (14) |
| N-Nitroso-di-n-propylamine | - | - | ND (10) | ND (11) | ND (10) | ND (11) ^a | ND (20) ^b | ND (10) ^a | ND (10) ^a | ND (11) ^b |
| N-Nitrosodiphenylamine | - | - | ND (13) | ND (14) | ND (13) | ND (14) | ND (26) | ND (13) | ND (13) | ND (14) |
| Phenanthrene | 500000 | 1000000 | 136 | ND (13) | 282 | 1180 | 1210 | 16.2 J | 24.8 J | 2010 |
| Pyrene | 500000 | 1000000 | 644 | 17.7 J | 1350 | 2050 | 1630 | 61.6 | 54.8 | 2180 |
| 1,2,4,5-Tetrachlorobenzene | - | - | ND (9.2) | ND (9.7) | ND (9.0) | ND (10) | ND (18) | ND (8.9) | ND (8.8) | ND (9.4) |
| 1,4 Dioxane (ug/kg) | | | | | | | | | | |
| 1,4-Dioxane | - | - | 2.06 J | 2.09 J | ND (1.8) | ND (2.0) | ND (3.5) | ND (1.8) | ND (1.7) | ND (1.9) |
| Pesticides and herbicides (ug/kg) | | | | | | | | | | |
| Aldrin | 680 | 1400 | ND (0.55) | ND (0.63) ^b | ND (0.60) ^b | ND (0.63) | ND (0.58) | ND (0.57) | ND (0.53) | 2.1 ^e |
| alpha-BHC | 3400 | 6800 | ND (0.54) | ND (0.62) ^b | ND (0.59) ^b | ND (0.62) | ND (0.57) | ND (0.56) | ND (0.52) | ND (0.59) |
| beta-BHC | 3000 | 14000 | ND (0.60) | ND (0.69) ^b | ND (0.65) ^b | ND (0.69) | ND (0.63) | ND (0.63) | ND (0.58) | ND (0.65) |
| delta-BHC | 500000 | 1000000 | ND (0.64) | ND (0.73) ^b | ND (0.69) ^b | ND (0.74) | ND (0.67) | ND (0.67) | ND (0.62) | ND (0.69) |
| gamma-BHC (Lindane) | 9200 | 23000 | ND (0.49) | ND (0.56) ^b | ND (0.53) ^b | ND (0.56) | ND (0.52) | ND (0.51) | ND (0.48) | ND (0.53) |
| alpha-Chlordane | 24000 | 47000 | 14.6 ^a | ND (0.62) ^b | ND (0.58) ^b | ND (0.62) | 4.0 ^d | ND (0.56) | ND (0.52) | ND (0.58) |
| gamma-Chlordane | - | - | 21.2 | ND (0.35) ^b | ND (0.33) ^b | ND (0.35) | 3.9 | ND (0.31) | ND (0.29) | ND (0.33) |
| Dieldrin | 1400 | 28000 | 4.1 ^a | ND (0.53) ^b | ND (0.50) ^b | ND (0.53) | 1.7 ^d | ND (0.48) | ND (0.44) | 1.1 ^e |
| 4,4'-DDD | 92000 | 180000 | ND (0.61) | ND (0.70) ^b | ND (0.66) ^b | 2.3 ^d | 3.5 | ND (0.64) | ND (0.59) | 4.8 |
| 4,4'-DDE | 62000 | 120000 | 6.8 | ND (0.67) ^b | ND (0.63) ^b | ND (0.67) | 11.7 ^d | ND (0.61) | ND (0.57) | 4.3 |
| 4,4'-DDT | 47000 | 94000 | 2.7 ^c | ND (0.68) ^b | ND (0.64) ^b | 6.3 ^d | 22.1 | ND (0.61) | ND (0.57) | 4.8 |
| Endrin | 89000 | 410000 | ND (0.52) | ND (0.59) ^b | ND (0.56) ^b | ND (0.60) | ND (0.55) | ND (0.54) | ND (0.50) | ND (0.56) |
| Endosulfan sulfate | 200000 | 920000 | ND (0.52) | ND (0.60) ^b | ND (0.57) ^b | ND (0.60) | ND (0.55) | ND (0.54) | ND (0.50) | ND (0.56) |
| Endrin aldehyde | - | - | ND (0.38) | ND (0.43) ^b | ND (0.41) ^b | ND (0.43) | ND (0.40) | ND (0.39) | ND (0.37) | ND (0.41) |
| Endosulfan-I | 200000 | 920000 | ND (0.38) | ND (0.44) ^b | ND (0.42) ^b | ND (0.44) | ND (0.40) | ND (0.40) | ND (0.37) | ND (0.42) |
| Endosulfan-II | 200000 | 920000 | ND (0.41) | ND (0.48) ^b | ND (0.45) ^b | ND (0.48) | ND (0.44) | ND (0.43) | ND (0.40) | ND (0.45) |
| Heptachlor | 15000 | 29000 | 3.2 | ND (0.66) ^b | ND (0.62) ^b | ND (0.66) | ND (0.61) | ND (0.60) | ND (0.56) | ND (0.62) |
| Heptachlor epoxide | - | - | 3.0 ^a | ND (0.54) ^b | ND (0.51) ^b | ND (0.54) | ND (0.49) | ND (0.49) | ND (0.45) | ND (0.51) |
| Methoxychlor | - | - | ND (0.53) | ND (0.61) ^b | ND (0.58) ^b | ND (0.61) | ND (0.56) | ND (0.55) | ND (0.51) | ND (0.57) |
| Endrin ketone | - | - | ND (0.48) | ND (0.55) | ND (0.52) | ND (0.55) | 8.9 | ND (0.50) | ND (0.47) | ND (0.52) |
| Toxaphene | - | - | ND (15) | ND (18) | ND (17) | ND (18) | ND (16) | ND (16) | ND (15) | ND (17) |
| 2,4-D | - | - | ND (7.6) | ND (8.4) | ND (8.0) | ND (8.8) | ND (7.3) | ND (7.2) | ND (7.5) | ND (7.8) |
| 2,4,5-TP (Silvex) | 500000 | 1000000 | ND (1.9) | ND (2.1) | ND (2.0) | ND (2.2) | ND (1.8) | ND (1.8) | ND (1.9) | ND (2.0) |
| 2,4,5-T | - | - | ND (1.7) | ND (1.9) | ND (1.8) | ND (2.0) | ND (1.6) | ND (1.6) | ND (1.7) | ND (1.7) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-31 | TT-SB-32 | TT-SB-33 | TT-SB-34 | TT-SB-35 | TT-SB-36 | TT-SB-37 | TT-SB-38 |
|--------------------------|-----------------------------------|-----------------------------------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-------------------|
| Sample Depth in feet bgs | | | 6.0-8.0 | 7.0-9.0 | 4.5-6.5 | 4.0-6.0 | 3.0-5.0 | 6.0-8.0 | 7.0-9.0 | 7.5-9.5 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/2/2021 | 12/2/2021 | 12/2/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/3/2021 | 12/6/2021 |
| PCBs (ug/kg) | | | | | | | | | | |
| Aroclor 1016 | 1000 | 25000 | ND (17) | ND (18) | ND (17) | ND (18) | ND (16) | ND (16) | ND (15) | ND (17) |
| Aroclor 1221 | 1000 | 25000 | ND (22) | ND (24) | ND (22) | ND (24) | ND (22) | ND (22) | ND (20) | ND (22) |
| Aroclor 1232 | 1000 | 25000 | ND (23) | ND (24) | ND (23) | ND (24) | ND (22) | ND (22) | ND (21) | ND (23) |
| Aroclor 1242 | 1000 | 25000 | ND (15) | ND (16) | ND (15) | ND (16) | ND (14) | ND (14) | ND (13) | ND (15) |
| Aroclor 1248 | 1000 | 25000 | ND (32) | ND (34) | ND (32) | ND (34) | ND (31) | ND (31) | ND (29) | ND (32) |
| Aroclor 1254 | 1000 | 25000 | ND (19) | ND (21) | ND (19) | ND (21) | ND (19) | ND (19) | ND (17) | ND (19) |
| Aroclor 1260 | 1000 | 25000 | ND (15) | ND (16) | ND (15) | ND (16) | ND (15) | ND (15) | ND (14) | ND (15) |
| Aroclor 1268 | 1000 | 25000 | ND (15) | ND (16) | ND (15) | ND (16) | ND (15) | ND (15) | ND (14) | ND (15) |
| Aroclor 1262 | 1000 | 25000 | ND (23) | ND (25) | ND (24) | ND (25) | ND (23) | ND (23) | ND (21) | ND (24) |
| Metals (mg/kg) | | | | | | | | | | |
| Aluminum | - | - | 4560 | 5170 | 5120 | 6160 | 4250 | 2760 | 2410 | 7760 |
| Antimony | - | - | <2.3 | <2.5 | <2.3 | <2.5 | <2.1 | <2.2 | <2.2 | <2.4 |
| Arsenic | 16 | 16 | <2.3 | 2.7 | 3.2 | 4.2 | <10 ^e | 3.2 | <2.2 | 9.4 ^f |
| Barium | 400 | 10000 | 34.8 | 48.3 | 35.8 | 31.8 | <100 ^e | <22 | <22 | 425 |
| Beryllium | 590 | 2700 | 0.38 | 0.46 | 0.37 | 0.39 | <1.0 ^e | <0.22 | <0.22 | 0.52 |
| Cadmium | 9.3 | 60 | <0.58 | <0.62 | <0.58 | <0.63 | <2.6 ^e | <0.55 | <0.54 | 0.69 |
| Calcium | - | - | 8460 | 1910 | 1760 | 16500 | 77500 | 626 | 4160 | 30900 |
| Chromium | - | - | 10.9 | 11.9 | 12 | 15.1 | 7.9 ^e | 6.8 | 7.4 | 16.4 |
| Cobalt | - | - | <5.8 | <6.2 | <5.8 | <6.3 | <26 ^e | <5.5 | <5.4 | 6.5 |
| Copper | 270 | 10000 | 15.4 | 12.2 | 22.7 | 17.6 | 19.4 ^e | 3.8 | 5.9 | 45.5 ^f |
| Iron | - | - | 10400 | 11500 | 10000 | 14800 | 7910 | 8390 | 6040 | 25500 |
| Lead | 1000 | 3900 | 32.2 | 19.4 | 45 | 180 | 79.1 | 8.7 | 11.3 | 563 |
| Magnesium | - | - | 3060 | 2430 | 2180 | 3180 | 6380 | 1870 | 1720 | 4230 |
| Manganese | 10000 | 10000 | 136 | 274 | 167 | 223 | 301 | 97 | 77.2 | 261 ^f |
| Mercury | 2.8 | 5.7 | 0.038 | <0.030 | 0.1 | 0.22 | 0.18 | 0.075 | 0.056 | 0.4 |
| Nickel | 310 | 10000 | 17.7 | 13.9 | 20.8 | 21.7 | - | 14.3 | 18.9 | 26.4 |
| Potassium | - | - | <1200 | 1270 | <1200 | <1300 | <1000 | <1100 | <1100 | 1390 |
| Selenium | 1500 | 6800 | <2.3 | <2.5 | <2.3 | <2.5 | <10 ^e | <2.2 | <2.2 | <4.8 ^f |
| Silver | 1500 | 6800 | <0.58 | <0.62 | <0.58 | <0.63 | <2.6 ^e | <0.55 | <0.54 | <1.2 ^f |
| Sodium | - | - | <1200 | 2510 | <1200 | <1300 | <1000 | <1100 | <1100 | <1200 |
| Thallium | - | - | <1.2 | <1.2 | <1.2 | <1.3 | <5.1 ^e | <1.1 | <1.1 | <2.4 ^f |
| Vanadium | - | - | 18.5 | 19.2 | 16.2 | 23 | 21 | 9.3 | 9.5 | 25 |
| Zinc | 10000 | 10000 | 46.4 | 36.2 | 47.9 | 46.3 | 70.2 | 18.3 | 20.3 | 342 |
| Cyanide | 27 | 10000 | <0.26 | <0.27 | <0.25 | <0.27 | <0.23 | <0.21 | <0.25 | 0.38 |

bgs - Feet below the ground surface

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objective

ND - Not detected at or above the quantitation limit

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

- No criteria

NA - Not Analyzed

Values shaded blue detected above quantitation limit

Values shaded in orange exceeded the NYSDEC - Commercial Use SCO w/ CP-51

Values shaded in green exceeded the NYSDEC - Industrial Use SCO w/ CP-51

^e Associated CCV outside of control limits high, sample was ND.

^f Associated CCV outside of control limits high, sample was ND.

^g Sample prepped within holding time, but run out of holding time.

**Table 1
Soil Sampling Results**

**Phase II Environmental Site Assessment
South Brooklyn Marine Terminal**

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-39 | TT-SB-40 |
|---|---------------------------------|---------------------------------|------------------------|------------------------|
| Sample Depth in feet bgs | | | 6.5-8.5 | 6.0-8.0 |
| Sampling Date | w/CP-51 (10/10)6 NYCRR 375-6 | w/CP-51 (10/10)6 NYCRR 375-6 | 12/6/2021 | 12/6/2021 |
| Volatile Organic Compounds (ug/kg) | | | | |
| Acetone | 500000 | 1000000 | 10.1 J | 19.4 |
| Benzene | 44000 | 89000 | ND (0.49) | ND (0.45) |
| Bromochloromethane | - | - | ND (0.61) | ND (0.56) |
| Bromodichloromethane | - | - | ND (0.46) | ND (0.43) |
| Bromoform | - | - | ND (1.5) | ND (1.4) |
| Bromomethane | - | - | ND (0.83) | ND (0.76) |
| 2-Butanone (MEK) | 500000 | 1000000 | ND (2.6) | ND (2.4) |
| Carbon disulfide | - | - | ND (0.58) ^a | 0.90 J ^b |
| Carbon tetrachloride | 22000 | 44000 | ND (0.67) | ND (0.61) |
| Chlorobenzene | 500000 | 1000000 | ND (0.50) | ND (0.46) |
| Chloroethane | - | - | ND (0.64) | ND (0.59) |
| Chloroform | 350000 | 700000 | ND (0.56) | ND (0.52) |
| Chloromethane | - | - | ND (2.1) | ND (1.9) |
| Cyclohexane | - | - | ND (0.71) | ND (0.65) |
| 1,2-Dibromo-3-chloropropane | - | - | ND (0.75) | ND (0.69) |
| Dibromochloromethane | - | - | ND (0.61) | ND (0.56) |
| 1,2-Dibromoethane | - | - | ND (0.46) | ND (0.42) |
| 1,2-Dichlorobenzene | 500000 | 1000000 | ND (0.59) | ND (0.54) |
| 1,3-Dichlorobenzene | 280000 | 560000 | ND (0.54) | ND (0.49) |
| 1,4-Dichlorobenzene | 130000 | 250000 | ND (0.54) | ND (0.49) |
| Dichlorodifluoromethane | - | - | ND (0.79) | ND (0.72) |
| 1,1-Dichloroethane | 240000 | 480000 | ND (0.54) | ND (0.49) |
| 1,2-Dichloroethane | 30000 | 60000 | ND (0.51) | ND (0.47) |
| 1,1-Dichloroethene | 500000 | 1000000 | ND (0.71) ^a | ND (0.65) ^a |
| cis-1,2-Dichloroethene | 500000 | 1000000 | ND (0.91) | ND (0.83) |
| trans-1,2-Dichloroethene | 500000 | 1000000 | ND (0.66) | ND (0.61) |
| 1,2-Dichloropropane | - | - | ND (0.51) | ND (0.47) |
| cis-1,3-Dichloropropene | - | - | ND (0.51) | ND (0.47) |
| trans-1,3-Dichloropropene | - | - | ND (0.50) | ND (0.45) |
| Ethylbenzene | 390000 | 780000 | ND (0.49) | ND (0.45) |
| Freon 113 | - | - | ND (2.9) | ND (2.7) |
| 2-Hexanone | - | - | ND (2.3) | ND (2.1) |
| Isopropylbenzene | - | - | ND (1.5) | ND (1.4) |
| Methyl Acetate | - | - | ND (1.5) | ND (1.4) |
| Methylcyclohexane | - | - | ND (0.95) | ND (0.87) |
| Methyl Tert Butyl Ether | 500000 | 1000000 | ND (0.51) | ND (0.47) |
| 4-Methyl-2-pentanone(MIBK) | - | - | ND (2.5) | ND (2.3) |
| Methylene chloride | 500000 | 1000000 | ND (2.8) | ND (2.6) |
| Styrene | - | - | ND (0.44) | ND (0.40) |
| 1,1,2,2-Tetrachloroethane | - | - | ND (0.65) | ND (0.60) |
| Tetrachloroethene | 150000 | 300000 | ND (0.63) | ND (0.58) |
| Toluene | 500000 | 1000000 | ND (0.57) | ND (0.52) |
| 1,2,3-Trichlorobenzene | - | - | ND (2.7) | ND (2.5) |
| 1,2,4-Trichlorobenzene | - | - | ND (2.7) | ND (2.5) |
| 1,1,1-Trichloroethane | 500000 | 1000000 | ND (0.52) | ND (0.48) |
| 1,1,2-Trichloroethane | - | - | ND (0.60) | ND (0.55) |
| Trichloroethene | 200000 | 400000 | ND (0.83) | ND (0.76) |
| Trichlorofluoromethane | - | - | ND (0.74) | ND (0.68) |
| Vinyl chloride | 13000 | 27000 | ND (0.52) | ND (0.48) |
| m,p-Xylene | - | - | ND (0.97) | ND (0.89) |
| o-Xylene | - | - | ND (0.50) | ND (0.45) |
| Xylene (total) | 500000 | 1000000 | ND (0.50) | ND (0.45) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-39 6.5-8.5 | TT-SB-40 6.0-8.0 |
|--|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Sample Depth in feet bgs | | | | |
| Sampling Date | w/CP-51 (10/10)6 NYCRR 375-6 | w/CP-51 (10/10)6 NYCRR 375-6 | 12/6/2021 | 12/6/2021 |
| PFAS Compounds (ug/kg) | | | | |
| Perfluorobutanoic acid | - | - | ND (0.42) | ND (0.42) |
| Perfluoropentanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorohexanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluoroheptanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorooctanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorononanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorodecanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluoroundecanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorododecanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorotridecanoic acid | - | - | ND (0.30) | ND (0.30) |
| Perfluorotetradecanoic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorobutanesulfonic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorohexanesulfonic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluoroheptanesulfonic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorooctanesulfonic acid | - | - | ND (0.28) | ND (0.28) |
| Perfluorodecanesulfonic acid | - | - | ND (0.28) | ND (0.28) |
| PFOSA | - | - | ND (0.28) | ND (0.28) |
| MeFOSAA | - | - | ND (0.56) | ND (0.56) |
| EtFOSAA | - | - | ND (0.56) | ND (0.56) |
| 6:2 Fluorotelomer sulfonate | - | - | ND (0.28) | ND (0.28) |
| 8:2 Fluorotelomer sulfonate | - | - | ND (0.28) | ND (0.28) |
| Semi Volatile Organic Compounds (ug/kg) | | | | |
| 2-Chlorophenol | - | - | ND (88) | ND (18) |
| 4-Chloro-3-methyl phenol | - | - | ND (110) | ND (23) |
| 2,4-Dichlorophenol | - | - | ND (150) | ND (32) |
| 2,4-Dimethylphenol | - | - | ND (320) | ND (67) |
| 2,4-Dinitrophenol | - | - | ND (670) ^c | ND (140) ^b |
| 4,6-Dinitro-o-cresol | - | - | ND (190) ^c | ND (40) ^b |
| 2-Methylphenol | - | - | ND (110) | ND (24) |
| 3&4-Methylphenol | - | - | ND (150) | ND (31) |
| 2-Nitrophenol | - | - | ND (120) ^c | ND (25) ^b |
| 4-Nitrophenol | - | - | ND (480) | ND (100) |
| Pentachlorophenol | 6700 | 55000 | ND (170) | ND (35) |
| Phenol | - | - | ND (93) | ND (20) |
| 2,3,4,6-Tetrachlorophenol | - | - | ND (120) | ND (25) ^b |
| 2,4,5-Trichlorophenol | - | - | ND (130) | ND (28) |
| 2,4,6-Trichlorophenol | - | - | ND (110) | ND (22) |
| Acenaphthene | 500000 | 1000000 | 258 | 347 |
| Acenaphthylene | 500000 | 1000000 | ND (91) | 250 |
| Acetophenone | - | - | ND (38) ^c | ND (8.0) ^b |
| Anthracene | 500000 | 1000000 | 604 | 894 |
| Atrazine | - | - | ND (77) ^c | ND (16) ^b |
| Benzo(a)anthracene | 5600 | 11000 | 1300 | 1860 |
| Benzo(a)pyrene | 1000 | 1100 | 1300 | 1970 |
| Benzo(b)fluoranthene | 5600 | 11000 | 1780 | 2490 |
| Benzo(g,h,i)perylene | 500000 | 1000000 | 670 | 1200 |
| Benzo(k)fluoranthene | 56000 | 110000 | 610 | 904 |
| 4-Bromophenyl phenyl ether | - | - | ND (69) | ND (14) |
| Butyl benzyl phthalate | - | - | ND (44) | ND (9.1) |
| 1,1'-Biphenyl | - | - | 43.5 J | 40.3 J |
| Benzaldehyde | - | - | ND (44) | ND (9.3) |
| 2-Chloronaphthalene | - | - | ND (43) | ND (8.9) |
| 4-Chloroaniline | - | - | ND (64) | ND (13) |
| Carbazole | - | - | 271 J | 297 |
| Caprolactam | - | - | ND (71) ^c | ND (15) |
| Chrysene | 56000 | 110000 | 1280 | 2130 |
| bis(2-Chloroethoxy)methane | - | - | ND (38) | ND (8.0) |
| bis(2-Chloroethyl)ether | - | - | ND (77) | ND (16) |
| 2,2'-Oxybis(1-chloropropane) | - | - | ND (64) | ND (13) |
| 4-Chlorophenyl phenyl ether | - | - | ND (58) | ND (12) |
| 2,4-Dinitrotoluene | - | - | ND (55) ^c | ND (12) ^b |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-39 6.5-8.5 | TT-SB-40 6.0-8.0 |
|--|---------------------------------|---------------------------------|----------------------|-----------------------|
| Sample Depth in feet bgs | | | | |
| Sampling Date | w/CP-51 (10/10)6 NYCRR 375-6 | w/CP-51 (10/10)6 NYCRR 375-6 | 12/6/2021 | 12/6/2021 |
| 2,6-Dinitrotoluene | - | - | ND (90) ^c | ND (19) |
| 3,3'-Dichlorobenzidine | - | - | ND (150) | ND (31) |
| 1,4-Dioxane | - | - | ND (120) | ND (25) |
| Dibenzo(a,h)anthracene | 560 | 1100 | 250 | 350 |
| Dibenzofuran | 350000 | 1000000 | 237 J | 384 |
| Di-n-butyl phthalate | - | - | 126 J | ND (6.1) |
| Di-n-octyl phthalate | - | - | ND (45) | ND (9.3) |
| Diethyl phthalate | - | - | ND (38) | ND (8.0) |
| Dimethyl phthalate | - | - | ND (32) | ND (6.7) |
| bis(2-Ethylhexyl)phthalate | - | - | 465 | ND (8.7) |
| Fluoranthene | 500000 | 1000000 | 2900 | 5110 |
| Fluorene | 500000 | 1000000 | 363 | 469 |
| Hexachlorobenzene | 6000 | 12000 | ND (45) | ND (9.5) |
| Hexachlorobutadiene | - | - | ND (72) ^c | ND (15) ^b |
| Hexachlorocyclopentadiene | - | - | ND (71) ^d | ND (15) |
| Hexachloroethane | - | - | ND (89) ^c | ND (19) |
| Indeno(1,2,3-cd)pyrene | 5600 | 11000 | 961 | 1490 |
| Isophorone | - | - | ND (38) | ND (8.0) |
| 2-Methylnaphthalene | - | - | 167 J | 86.3 |
| 2-Nitroaniline | - | - | ND (42) ^c | ND (8.8) ^b |
| 3-Nitroaniline | - | - | ND (45) | ND (9.3) |
| 4-Nitroaniline | - | - | ND (46) | ND (9.7) |
| Naphthalene | 500000 | 1000000 | 279 | 265 |
| Nitrobenzene | - | - | ND (69) | ND (14) |
| N-Nitroso-di-n-propylamine | - | - | ND (52) ^c | ND (11) ^b |
| N-Nitrosodiphenylamine | - | - | ND (65) | ND (14) |
| Phenanthrene | 500000 | 1000000 | 2090 | 4870 |
| Pyrene | 500000 | 1000000 | 2680 | 5670 |
| 1,2,4,5-tetrachlorobenzene | - | - | ND (45) | ND (9.5) |
| 1,4 Dioxane (ug/kg) | | | | |
| 1,4-Dioxane | - | - | ND (8.9) | ND (1.9) |
| Pesticides and herbicides (ug/kg) | | | | |
| Aldrin | 680 | 1400 | 1.2 ^e | 2.6 ^e |
| alpha-BHC | 3400 | 6800 | ND (0.56) | 0.74 ^e |
| beta-BHC | 3000 | 14000 | ND (0.62) | ND (0.66) |
| delta-BHC | 500000 | 1000000 | ND (0.66) | ND (0.70) |
| gamma-BHC (Lindane) | 9200 | 23000 | 3.1 ^e | 3.1 ^e |
| alpha-Chlordane | 24000 | 47000 | ND (0.56) | 5.5 ^e |
| gamma-Chlordane | - | - | ND (0.31) | ND (0.33) |
| Dieldrin | 1400 | 28000 | ND (0.47) | 2.2 ^e |
| 4,4'-DDD | 92000 | 180000 | 9.5 | 49.2 |
| 4,4'-DDE | 62000 | 120000 | 14.8 | 12.7 ^e |
| 4,4'-DDT | 47000 | 94000 | ND (0.61) | 10.5 |
| Endrin | 89000 | 410000 | ND (0.54) | ND (0.56) |
| Endosulfan sulfate | 200000 | 920000 | ND (0.54) | ND (0.57) |
| Endrin aldehyde | - | - | ND (0.39) | ND (0.41) |
| Endosulfan-I | 200000 | 920000 | ND (0.40) | ND (0.42) |
| Endosulfan-II | 200000 | 920000 | ND (0.43) | 5.6 |
| Heptachlor | 15000 | 29000 | ND (0.59) | ND (0.63) |
| Heptachlor epoxide | - | - | ND (0.48) | ND (0.51) |
| Methoxychlor | - | - | ND (0.55) | ND (0.58) |
| Endrin ketone | - | - | ND (0.50) | ND (0.53) |
| Toxaphene | - | - | ND (16) | ND (17) |
| 2,4-D | - | - | ND (39) | ND (8.2) |
| 2,4,5-TP (Silvex) | 500000 | 1000000 | ND (9.9) | ND (2.1) |
| 2,4,5-T | - | - | ND (8.7) | ND (1.8) |

Table 1
Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Soil Boring Location | NY SCO - Commercial | NY SCO - Industrial | TT-SB-39 | TT-SB-40 |
|--------------------------|-----------------------------------|-----------------------------------|-----------|-----------|
| Sample Depth in feet bgs | | | 6.5-8.5 | 6.0-8.0 |
| Sampling Date | w/CP-51 (10/10)(6) NYCRR 375-6 | w/CP-51 (10/10)(6) NYCRR 375-6 | 12/6/2021 | 12/6/2021 |
| PCBs (ug/kg) | | | | |
| Aroclor 1016 | 1000 | 25000 | ND (16) | ND (17) |
| Aroclor 1221 | 1000 | 25000 | ND (21) | ND (23) |
| Aroclor 1232 | 1000 | 25000 | ND (22) | ND (23) |
| Aroclor 1242 | 1000 | 25000 | ND (14) | ND (15) |
| Aroclor 1248 | 1000 | 25000 | ND (31) | ND (32) |
| Aroclor 1254 | 1000 | 25000 | ND (19) | ND (20) |
| Aroclor 1260 | 1000 | 25000 | ND (15) | ND (15) |
| Aroclor 1268 | 1000 | 25000 | ND (15) | ND (15) |
| Aroclor 1262 | 1000 | 25000 | ND (23) | ND (24) |
| Metals (mg/kg) | | | | |
| Aluminum | - | - | 6390 | 6240 |
| Antimony | - | - | <2.2 | <2.2 |
| Arsenic | 16 | 16 | 5.2 | 6.4 |
| Barium | 400 | 10000 | 63.4 | 738 |
| Beryllium | 590 | 2700 | 0.42 | 0.37 |
| Cadmium | 9.3 | 60 | <0.55 | 0.64 |
| Calcium | - | - | 43100 | 34400 |
| Chromium | - | - | 13.1 | 18.7 |
| Cobalt | - | - | 6.1 | <5.4 |
| Copper | 270 | 10000 | 28.6 | 26.6 |
| Iron | - | - | 12800 | 11600 |
| Lead | 1000 | 3900 | 79.4 | 374 |
| Magnesium | - | - | 7350 | 5560 |
| Manganese | 10000 | 10000 | 202 | 271 |
| Mercury | 2.8 | 5.7 | 0.086 | 0.11 |
| Nickel | 310 | 10000 | 23.9 | 17.2 |
| Potassium | - | - | 1250 | <1100 |
| Selenium | 1500 | 6800 | <2.2 | <2.2 |
| Silver | 1500 | 6800 | 1.1 | 1.1 |
| Sodium | - | - | <1100 | <1100 |
| Thallium | - | - | <1.1 | <1.1 |
| Vanadium | - | - | 23.8 | 21.3 |
| Zinc | 10000 | 10000 | 68.5 | 455 |
| Cyanide | 27 | 10000 | <0.32 | <0.24 |

bgs - Feet below the ground surface

NYSDEC - New York State Department of Environmental Conservation

SCO - Soil Cleanup Objective

ND - Not detected at or above the quantitation limit

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

- No criteria

NA - Not Analyzed

Values shaded blue detected above quantitation limit

Values shaded in orange exceeded the NYSDEC - Commercial Use SCO w/ CP-51

Values shaded in green exceeded the NYSDEC - Industrial Use SCO w/ CP-51

¹ Associated CCV outside of control limits high, sample was ND.

² Associated CCV outside of control limits high, sample was ND.

³ Sample prepped within holding time, but run out of holding time.

Table 2
Ground Water Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Location ID | NYSDEC Ambient Water Quality Standards and Guidance Values* | TT-SB-02GW | TT-SB-06GW | TT-SB-12GW | TT-SB-13GW | TT-SB-18GW | TT-SB-20GW |
|---|---|------------------------|------------------------|------------|------------------------|------------|------------|
| Sampling Date | | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/6/2021 |
| PFAS Compounds (ug/kg) | | | | | | | |
| Perfluorobutanoic acid | - | 6.4 | 10.4 | 5.4 | 2.9 J | 7.5 | 3.7 |
| Perfluoropentanoic acid | - | 1.8 J | 4.1 | 1.7 J | 1.6 J | 2.2 | ND (0.93) |
| Perfluorohexanoic acid | - | 1.8 J | 3.4 | 2.9 | 1.7 J | 2.4 | ND (0.93) |
| Perfluoroheptanoic acid | - | 2.9 | 3.2 | 4.3 | 4.9 | 4.1 | 1.7 J |
| Perfluorooctanoic acid | 10 | 61.8 | 28.8 | 26.6 | 23.9 | 33.4 | 12.9 |
| Perfluorononanoic acid | - | 1.1 J | 1.5 J | 0.96 J | ND (0.93) | ND (0.93) | 2.8 |
| Perfluorodecanoic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluoroundecanoic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluorododecanoic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluorotridecanoic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluorotetradecanoic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluorobutanesulfonic acid | - | 1.2 J | 1.6 J | ND (0.93) | 1.1 J | 2.4 | 1.0 J |
| Perfluorohexanesulfonic acid | - | 1.1 J | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluoroheptanesulfonic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| Perfluorooctanesulfonic acid | 10 | 2.7 | 2.3 | 11.6 | 2.7 | ND (0.93) | 8.9 |
| Perfluorodecanesulfonic acid | - | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) | ND (0.93) |
| PFOSA | - | ND (1.9) | ND (1.9) | ND (9.3) | ND (1.9) | ND (9.3) | ND (1.9) |
| MeFOSAA | - | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) |
| EtFOSAA | - | ND (1.9) | ND (1.9) | 2.7 J | ND (1.9) | ND (1.9) | ND (1.9) |
| 6:2 Fluorotelomer sulfonate | - | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) |
| 8:2 Fluorotelomer sulfonate | - | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) | ND (1.9) |
| Semi-Volatile Organic Compounds (ug/L) | | | | | | | |
| 2-Chlorophenol | - | ND (0.86) | ND (0.86) | ND (0.84) | ND (0.84) | ND (0.84) | ND (0.84) |
| 4-Chloro-3-methyl phenol | - | ND (0.94) | ND (0.94) | ND (0.91) | ND (0.91) | ND (0.91) | ND (0.91) |
| 2,4-Dichlorophenol | 1 | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.3) | ND (1.3) |
| 2,4-Dimethylphenol | 1 | ND (2.6) | ND (2.6) | ND (2.5) | ND (2.5) | ND (2.5) | ND (2.5) |
| 2,4-Dinitrophenol | 1 | ND (1.6) ^b | ND (1.6) ^b | ND (1.6) | ND (1.6) ^b | ND (1.6) | ND (1.6) |
| 4,6-Dinitro-o-cresol | - | ND (1.4) ^b | ND (1.4) ^b | ND (1.3) | ND (1.3) ^b | ND (1.3) | ND (1.3) |
| 2-Methylphenol | - | ND (0.93) | ND (0.93) | ND (0.91) | ND (0.91) | ND (0.91) | ND (0.91) |
| 3&4-Methylphenol | - | ND (0.93) | ND (0.93) | ND (0.90) | ND (0.90) | ND (0.90) | ND (0.90) |
| 2-Nitrophenol | - | ND (1.0) ^b | ND (1.0) ^b | ND (0.98) | ND (0.98) ^b | ND (0.98) | ND (0.98) |
| 4-Nitrophenol | - | ND (1.2) | ND (1.2) | ND (1.2) | ND (1.2) | ND (1.2) | ND (1.2) |
| Pentachlorophenol | 1 | ND (1.5) | ND (1.5) | ND (1.4) | ND (1.4) | ND (1.4) | ND (1.4) |
| Phenol | 1 | ND (0.41) | ND (0.41) | ND (0.40) | ND (0.40) | ND (0.40) | ND (0.40) |
| 2,3,4,6-Tetrachlorophenol | - | ND (1.5) ^b | ND (1.5) ^b | ND (1.5) | ND (1.5) ^b | ND (1.5) | ND (1.5) |
| 2,4,5-Trichlorophenol | - | ND (1.4) | ND (1.4) | ND (1.4) | ND (1.4) | ND (1.4) | ND (1.4) |
| 2,4,6-Trichlorophenol | - | ND (0.97) | ND (0.97) | ND (0.94) | ND (0.94) | ND (0.94) | ND (0.94) |
| Acenaphthene | 20 | ND (0.20) | ND (0.20) | 1.2 | ND (0.19) | ND (0.19) | ND (0.19) |
| Acenaphthylene | - | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) |
| Acetophenone | - | ND (0.22) ^b | ND (0.22) ^b | ND (0.21) | ND (0.21) ^b | ND (0.21) | ND (0.21) |
| Anthracene | 50 | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) |
| Atrazine | - | ND (0.47) ^b | ND (0.47) ^b | ND (0.46) | ND (0.46) ^b | ND (0.46) | ND (0.46) |
| Benzaldehyde | - | ND (0.30) | ND (0.30) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) |
| Benzo(a)anthracene | 0.002 | ND (0.21) | ND (0.21) | ND (0.21) | 0.76 J | ND (0.21) | ND (0.21) |
| Benzo(a)pyrene | - | ND (0.22) | ND (0.22) | ND (0.22) | 0.65 J | ND (0.22) | ND (0.22) |
| Benzo(b)fluoranthene | 0.002 | ND (0.22) | ND (0.22) | ND (0.21) | 0.90 J | ND (0.21) | ND (0.21) |
| Benzo(g,h,i)perylene | - | ND (0.36) | ND (0.36) | ND (0.35) | 0.46 J | ND (0.35) | ND (0.35) |
| Benzo(k)fluoranthene | 0.002 | ND (0.22) | ND (0.22) | ND (0.21) | 0.38 J | ND (0.21) | ND (0.21) |
| 4-Bromophenyl phenyl ether | - | ND (0.43) | ND (0.43) | ND (0.41) | ND (0.41) | ND (0.41) | ND (0.41) |
| Butyl benzyl phthalate | 50 | ND (0.48) | ND (0.48) | ND (0.47) | ND (0.47) | ND (0.47) | ND (0.47) |
| 1,1'-Biphenyl | - | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) |
| 2-Chloronaphthalene | - | ND (0.25) | ND (0.25) | ND (0.24) | ND (0.24) | ND (0.24) | ND (0.24) |
| 4-Chloroaniline | 5 | ND (0.36) | ND (0.36) | ND (0.35) | ND (0.35) | ND (0.35) | ND (0.35) |

Table 2
Ground Water Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Location ID | NYSDEC Ambient Water Quality Standards and Guidance Values* | TT-SB-02GW | TT-SB-06GW | TT-SB-12GW | TT-SB-13GW | TT-SB-18GW | TT-SB-20GW |
|--|---|------------------------|------------------------|-------------|------------------------|-------------|-------------|
| Sampling Date | | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/6/2021 |
| Carbazole | - | ND (0.24) | ND (0.24) | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) |
| Caprolactam | - | ND (0.68) | ND (0.68) | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) |
| Chrysene | 0.002 | ND (0.19) | ND (0.19) | ND (0.18) | 0.64 J | ND (0.18) | ND (0.18) |
| bis(2-Chloroethoxy)methane | 5 | ND (0.29) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) |
| bis(2-Chloroethyl)ether | 1 | ND (0.26) | ND (0.26) | ND (0.25) | ND (0.25) | ND (0.25) | ND (0.25) |
| 2,2'-Oxybis(1-chloropropane) | - | ND (0.42) | ND (0.42) | ND (0.41) | ND (0.41) | ND (0.41) | ND (0.41) |
| 4-Chlorophenyl phenyl ether | - | ND (0.39) | ND (0.39) | ND (0.37) | ND (0.37) | ND (0.37) | ND (0.37) |
| 2,4-Dinitrotoluene | 5 | ND (0.58) ^b | ND (0.58) ^b | ND (0.56) | ND (0.56) ^b | ND (0.56) | ND (0.56) |
| 2,6-Dinitrotoluene | 5 | ND (0.50) ^b | ND (0.50) ^b | ND (0.49) | ND (0.49) ^b | ND (0.49) | ND (0.49) |
| 3,3'-Dichlorobenzidine | - | ND (0.53) | ND (0.53) | ND (0.52) | ND (0.52) | ND (0.52) | ND (0.52) |
| Dibenzo(a,h)anthracene | - | ND (0.35) | ND (0.35) | ND (0.34) | ND (0.34) | ND (0.34) | ND (0.34) |
| Dibenzofuran | - | ND (0.23) | ND (0.23) | 0.39 J | ND (0.22) | ND (0.22) | ND (0.22) |
| Di-n-butyl phthalate | 50 | ND (0.52) | ND (0.52) | ND (0.51) | ND (0.51) | ND (0.51) | ND (0.51) |
| Di-n-octyl phthalate | - | ND (0.25) | ND (0.25) | ND (0.24) | ND (0.24) | ND (0.24) | ND (0.24) |
| Diethyl phthalate | 50 | ND (0.28) | ND (0.28) | ND (0.27) | ND (0.27) | ND (0.27) | ND (0.27) |
| Dimethyl phthalate | 50 | ND (0.23) | ND (0.23) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) |
| bis(2-Ethylhexyl)phthalate | 5 | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) |
| Fluoranthene | 50 | ND (0.18) | ND (0.18) | 0.23 J | 1.5 | ND (0.17) | ND (0.17) |
| Fluorene | 50 | ND (0.18) | ND (0.18) | 0.18 J | ND (0.17) | ND (0.17) | ND (0.17) |
| Hexachlorobenzene | 0.04 | ND (0.34) | ND (0.34) | ND (0.33) | ND (0.33) | ND (0.33) | ND (0.33) |
| Hexachlorobutadiene | 0.5 | ND (0.52) ^b | ND (0.52) ^b | ND (0.50) | ND (0.50) ^b | ND (0.50) | ND (0.50) |
| Hexachlorocyclopentadiene | 5 | ND (2.9) | ND (2.9) | ND (2.8) | ND (2.8) | ND (2.8) | ND (2.8) |
| Hexachloroethane | 5 | ND (0.41) ^b | ND (0.41) ^b | ND (0.40) | ND (0.40) ^b | ND (0.40) | ND (0.40) |
| Indeno(1,2,3-cd)pyrene | 0.002 | ND (0.35) | ND (0.35) | ND (0.34) | 0.57 J | ND (0.34) | ND (0.34) |
| Isothorone | 50 | ND (0.29) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) |
| 2-Methylnaphthalene | 50 | ND (0.22) | ND (0.22) | ND (0.21) | ND (0.21) | ND (0.21) | ND (0.21) |
| 2-Nitroaniline | 5 | ND (0.29) ^b | ND (0.29) ^b | ND (0.28) | ND (0.28) ^b | ND (0.28) | ND (0.28) |
| 3-Nitroaniline | 5 | ND (0.41) | ND (0.41) | ND (0.39) | ND (0.39) | ND (0.39) | ND (0.39) |
| 4-Nitroaniline | 5 | ND (0.46) | ND (0.46) | ND (0.45) | ND (0.45) | ND (0.45) | ND (0.45) |
| Naphthalene | 10 | ND (0.24) | ND (0.24) | 1 | ND (0.24) | ND (0.24) | ND (0.24) |
| Nitrobenzene | 0.4 | ND (0.68) ^b | ND (0.68) ^b | ND (0.66) | ND (0.66) ^b | ND (0.66) | ND (0.66) |
| N-Nitroso-di-n-propylamine | - | ND (0.51) ^b | ND (0.51) ^b | ND (0.49) | ND (0.49) ^b | ND (0.49) | ND (0.49) |
| N-Nitrosodiphenylamine | 50 | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) |
| Phenanthrene | 50 | ND (0.18) | ND (0.18) | 0.54 J | 0.65 J | ND (0.18) | ND (0.18) |
| Pyrene | 50 | ND (0.23) | ND (0.23) | ND (0.22) | 1.5 | ND (0.22) | ND (0.22) |
| 1,2,4,5-Tetrachlorobenzene | - | ND (0.39) | ND (0.39) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) |
| 1,4 Dioxane (ug/l) | | | | | | | |
| 1,4-Dioxane | 1 | 0.117 | ND (0.053) | 0.0615 J | 0.0784 J | ND (0.051) | ND (0.051) |
| Pesticides and herbicides (ug/l) (ug/l) | | | | | | | |
| Aldrin | 0.01 | ND (0.0041) | ND (0.0041) | ND (0.0041) | ND (0.0043) | ND (0.0041) | ND (0.0042) |
| alpha-BHC | 0.05 | ND (0.0042) | ND (0.0042) | ND (0.0042) | ND (0.0043) | ND (0.0042) | ND (0.0042) |
| beta-BHC | 0.05 | ND (0.0064) | ND (0.0064) | ND (0.0064) | ND (0.0067) | ND (0.0064) | ND (0.0065) |
| delta-BHC | 0.05 | ND (0.0053) | ND (0.0053) | ND (0.0053) | ND (0.0055) | ND (0.0053) | ND (0.0054) |
| gamma-BHC (Lindane) | 0.05 | ND (0.0048) | ND (0.0048) | ND (0.0048) | ND (0.0050) | ND (0.0048) | ND (0.0049) |
| alpha-Chlordane | - | ND (0.0039) | ND (0.0039) | ND (0.0039) | ND (0.0041) | ND (0.0039) | ND (0.0040) |
| gamma-Chlordane | 0.1 | ND (0.0034) | ND (0.0034) | ND (0.0034) | ND (0.0035) | ND (0.0034) | ND (0.0035) |
| Dieldrin | 0.01 | ND (0.0061) | ND (0.0061) | ND (0.0061) | ND (0.0064) | ND (0.0061) | ND (0.0063) |
| 4,4'-DDD | 0.01 | ND (0.0046) | ND (0.0046) | ND (0.0046) | ND (0.0048) | ND (0.0046) | ND (0.0047) |
| 4,4'-DDE | 0.01 | ND (0.0040) | ND (0.0040) | ND (0.0040) | ND (0.0042) | ND (0.0040) | ND (0.0041) |
| 4,4'-DDT | 0.01 | ND (0.0055) | ND (0.0055) | ND (0.0055) | ND (0.0057) | ND (0.0055) | ND (0.0056) |
| Endrin | 0.01 | ND (0.0048) | ND (0.0048) | ND (0.0048) | ND (0.0050) | ND (0.0048) | ND (0.0049) |
| Endosulfan sulfate | 0.1 | ND (0.0044) | ND (0.0044) | ND (0.0044) | ND (0.0045) | ND (0.0044) | ND (0.0044) |
| Endrin aldehyde | - | ND (0.0054) | ND (0.0054) | ND (0.0054) | ND (0.0056) | ND (0.0054) | ND (0.0055) |
| Endrin ketone | - | ND (0.0050) | ND (0.0050) | ND (0.0050) | ND (0.0052) | ND (0.0050) | ND (0.0051) |
| Endosulfan-I | 0.1 | ND (0.0042) | ND (0.0042) | ND (0.0042) | ND (0.0044) | ND (0.0042) | ND (0.0043) |
| Endosulfan-II | 0.1 | ND (0.0039) | ND (0.0039) | ND (0.0039) | ND (0.0041) | ND (0.0039) | ND (0.0040) |
| Heptachlor | 0.01 | ND (0.0036) | ND (0.0036) | ND (0.0036) | ND (0.0037) | ND (0.0036) | ND (0.0037) |
| Heptachlor epoxide | 0.01 | ND (0.0048) | ND (0.0048) | ND (0.0048) | ND (0.0050) | ND (0.0048) | ND (0.0049) |
| Methoxychlor | 35 | ND (0.0054) | ND (0.0054) | ND (0.0054) | ND (0.0056) | ND (0.0054) | ND (0.0055) |
| Toxaphene | - | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.14) | ND (0.13) | ND (0.13) |
| 2,4-D | 4.4 | ND (0.077) | ND (0.083) | ND (0.081) | ND (0.078) | ND (0.081) | ND (0.080) |
| 2,4,5-TP (Silvex) | 0.26 | ND (0.048) | ND (0.052) | ND (0.051) | ND (0.049) | ND (0.051) | ND (0.050) |
| 2,4,5-T | 35 | ND (0.015) | ND (0.016) | ND (0.016) | ND (0.015) | ND (0.016) | ND (0.015) |

Table 2
Ground Water Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Location ID | NYSDEC Ambient Water Quality Standards and Guidance Values* | TT-SB-02GW | TT-SB-06GW | TT-SB-12GW | TT-SB-13GW | TT-SB-18GW | TT-SB-20GW |
|----------------------|---|------------|-------------------|------------------|------------|------------|------------|
| Sampling Date | | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/7/2021 | 12/6/2021 |
| PCBs (ug/l) | | | | | | | |
| Aroclor 1016 | - | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) |
| Aroclor 1221 | - | ND (0.34) | ND (0.34) | ND (0.34) | ND (0.35) | ND (0.34) | ND (0.34) |
| Aroclor 1232 | - | ND (0.21) | ND (0.21) | ND (0.21) | ND (0.22) | ND (0.21) | ND (0.21) |
| Aroclor 1242 | - | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.19) | ND (0.18) | ND (0.19) |
| Aroclor 1248 | - | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) |
| Aroclor 1254 | - | ND (0.33) | ND (0.33) | ND (0.33) | ND (0.34) | ND (0.33) | ND (0.34) |
| Aroclor 1260 | - | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.13) | ND (0.12) | ND (0.12) |
| Aroclor 1268 | - | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) |
| Aroclor 1262 | - | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.16) | ND (0.15) | ND (0.16) |
| Metals (ug/L) | | | | | | | |
| Aluminum | 2000 | 1920 | 596 | <200 | 437 | NA | 25600 |
| Antimony | 6 | <6.0 | <6.0 | <6.0 | <6.0 | NA | 6.2 |
| Arsenic | 50 | 6.3 | 30.1 ^c | <15 ^c | 3.1 | NA | 25.2 |
| Barium | 2000 | <200 | 577 | <200 | <200 | NA | 474 |
| Beryllium | 3 | <1.0 | <1.0 | 2 | <1.0 | NA | 2.2 |
| Cadmium | 10 | <3.0 | <3.0 | <3.0 | <3.0 | NA | 6.2 |
| Calcium | - | 170000 | 229000 | 210000 | 107000 | NA | 72600 |
| Chromium | 100 | <10 | <10 | <10 | <10 | NA | 56 |
| Cobalt | - | <50 | <50 | <50 | <50 | NA | <50 |
| Copper | 1000 | <10 | <10 | <10 | <10 | NA | 93 |
| Iron | 600 | 5970 | 20200 | 806 | 868 | NA | 42500 |
| Lead | 25 | 11.9 | 6.2 | <15 ^c | 135 | NA | 253 |
| Magnesium | 35000 | 31900 | 58800 | 276000 | 27000 | NA | 25000 |
| Manganese | 600 | 2210 | 6880 | 27.6 | 96.4 | NA | 4550 |
| Mercury | 1.4 | <0.20 | <0.20 | <0.20 | <0.20 | NA | <0.60 |
| Nickel | 200 | <10 | <10 | <10 | <10 | NA | 85.2 |
| Potassium | - | 14900 | 19600 | 189000 | 13000 | NA | 16700 |
| Selenium | 20 | <10 | <10 | <10 | <10 | NA | <10 |
| Silver | 100 | <10 | <10 | <10 | <10 | NA | <10 |
| Sodium | - | 118000 | 308000 | 3760000 | 107000 | NA | 88100 |
| Thallium | 0.5 | <10 | <50 ^c | <10 | <10 | NA | <10 |
| Vanadium | - | <50 | <50 | <50 | <50 | NA | 77.9 |
| Zinc | 5000 | 60.5 | <20 | 39.5 | 100 | NA | 416 |

Notes:

µg/L - micrograms per liter

NYSDEC - New York State Department of Environmental Conservation

*Ambient water quality guidance value

NA - Not Analyzed

- No criteria

ND- Indicates that the analyte was not detected above the sample-specific reporting limit

Values shaded in orange exceeded the NYSDEC Ground Water Quality Standards

^a Associated CCV outside of control limits high, sample was ND.

^b Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

^c Elevated detection limit due to dilution required for high interfering element.

Table 2
Ground Water Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Location ID | NYSDEC Ambient Water Quality Standards and Guidance Values* | TT-SB-22GW | TT-SB-23GW | TT-SB-27GW | TT-SB-30GW | TT-SB-31GW | GW-DUP01 |
|--|---|-------------|-------------|-------------|-------------|-------------|-------------|
| Sampling Date | | 12/6/2021 | 12/7/2021 | 12/6/2021 | 12/6/2021 | 12/6/2021 | 12/7/2021 |
| Carbazole | - | ND (0.23) | ND (0.24) | ND (0.23) | ND (0.23) | ND (0.24) | ND (0.24) |
| Caprolactam | - | ND (0.66) | ND (0.67) | ND (0.66) | ND (0.66) | ND (0.67) | ND (0.67) |
| Chrysene | 0.002 | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.18) | 0.37 J | ND (0.18) |
| bis(2-Chloroethoxy)methane | 5 | ND (0.28) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.29) | ND (0.29) |
| bis(2-Chloroethyl)ether | 1 | ND (0.25) | ND (0.26) | ND (0.25) | ND (0.25) | ND (0.26) | ND (0.26) |
| 2,2'-Oxybis(1-chloropropane) | - | ND (0.41) | ND (0.42) | ND (0.41) | ND (0.41) | ND (0.42) | ND (0.42) |
| 4-Chlorophenyl phenyl ether | - | ND (0.37) | ND (0.38) | ND (0.37) | ND (0.37) | ND (0.38) | ND (0.38) |
| 2,4-Dinitrotoluene | 5 | ND (0.56) | ND (0.57) | ND (0.56) | ND (0.56) | ND (0.57) | ND (0.57) |
| 2,6-Dinitrotoluene | 5 | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) |
| 3,3'-Dichlorobenzidine | - | ND (0.52) | ND (0.52) | ND (0.52) | ND (0.52) | ND (0.52) | ND (0.52) |
| Dibenzo(a,h)anthracene | - | ND (0.34) | ND (0.34) | ND (0.34) | ND (0.34) | 0.69 J | ND (0.34) |
| Dibenzofuran | - | ND (0.22) | ND (0.23) | ND (0.22) | ND (0.22) | ND (0.23) | 0.36 J |
| Di-n-butyl phthalate | 50 | ND (0.51) | ND (0.51) | ND (0.51) | ND (0.51) | ND (0.51) | ND (0.51) |
| Di-n-octyl phthalate | - | ND (0.24) | ND (0.24) | ND (0.24) | ND (0.24) | ND (0.24) | ND (0.24) |
| Diethyl phthalate | 50 | ND (0.27) | ND (0.27) | ND (0.27) | ND (0.27) | ND (0.27) | ND (0.27) |
| Dimethyl phthalate | 50 | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) | ND (0.22) |
| bis(2-Ethylhexyl)phthalate | 5 | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) | ND (1.7) |
| Fluoranthene | 50 | ND (0.17) | ND (0.18) | ND (0.17) | ND (0.17) | 0.70 J | ND (0.18) |
| Fluorene | 50 | ND (0.17) | ND (0.18) | ND (0.17) | ND (0.17) | 0.21 J | ND (0.18) |
| Hexachlorobenzene | 0.04 | ND (0.33) | ND (0.34) | ND (0.33) | ND (0.33) | ND (0.34) | ND (0.34) |
| Hexachlorobutadiene | 0.5 | ND (0.50) | ND (0.51) | ND (0.50) | ND (0.50) | ND (0.51) | ND (0.51) |
| Hexachlorocyclopentadiene | 5 | ND (2.8) | ND (2.9) | ND (2.8) | ND (2.8) | ND (2.9) | ND (2.9) |
| Hexachloroethane | 5 | ND (0.40) | ND (0.40) | ND (0.40) | ND (0.40) | ND (0.40) | ND (0.40) |
| Indeno(1,2,3-cd)pyrene | 0.002 | ND (0.34) | ND (0.34) | ND (0.34) | 0.73 J | 1.1 | ND (0.34) |
| Isophorone | 50 | ND (0.28) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.29) | ND (0.29) |
| 2-Methylnaphthalene | 50 | 1 | ND (0.22) | ND (0.21) | ND (0.21) | ND (0.22) | ND (0.22) |
| 2-Nitroaniline | 5 | ND (0.28) | ND (0.29) | ND (0.28) | ND (0.28) | ND (0.29) | ND (0.29) |
| 3-Nitroaniline | 5 | ND (0.39) | ND (0.40) | ND (0.39) | ND (0.39) | ND (0.40) | ND (0.40) |
| 4-Nitroaniline | 5 | ND (0.45) | ND (0.45) | ND (0.45) | ND (0.45) | ND (0.45) | ND (0.45) |
| Naphthalene | 10 | 1.1 | ND (0.24) | ND (0.24) | ND (0.24) | ND (0.24) | 0.89 J |
| Nitrobenzene | 0.4 | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) |
| N-Nitroso-di-n-propylamine | - | ND (0.49) | ND (0.50) | ND (0.49) | ND (0.49) | ND (0.50) | ND (0.50) |
| N-Nitrosodiphenylamine | 50 | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) | ND (0.23) |
| Phenanthrene | 50 | ND (0.18) | ND (0.18) | 0.26 J | ND (0.18) | 0.63 J | 0.52 J |
| Pyrene | 50 | ND (0.22) | ND (0.23) | ND (0.22) | ND (0.22) | 0.70 J | ND (0.23) |
| 1,2,4,5-Tetrachlorobenzene | - | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) |
| 1,4 Dioxane (ug/l) | | | | | | | |
| 1,4-Dioxane | 1 | ND (0.051) | 0.0537 J | ND (0.051) | ND (0.051) | ND (0.052) | ND (0.052) |
| Pesticides and herbicides (ug/l) (ug/l) | | | | | | | |
| Aldrin | 0.01 | ND (0.0042) | ND (0.0047) | ND (0.0041) | ND (0.0042) | ND (0.0041) | ND (0.0041) |
| alpha-BHC | 0.05 | ND (0.0042) | ND (0.0047) | ND (0.0041) | ND (0.0042) | ND (0.0042) | ND (0.0042) |
| beta-BHC | 0.05 | ND (0.0065) | ND (0.0073) | ND (0.0063) | ND (0.0065) | ND (0.0064) | ND (0.0064) |
| delta-BHC | 0.05 | ND (0.0054) | ND (0.0060) | ND (0.0052) | ND (0.0054) | ND (0.0053) | ND (0.0053) |
| gamma-BHC (Lindane) | 0.05 | ND (0.0049) | ND (0.0054) | ND (0.0047) | ND (0.0049) | ND (0.0048) | ND (0.0048) |
| alpha-Chlordane | - | ND (0.0040) | ND (0.0045) | ND (0.0039) | ND (0.0040) | ND (0.0039) | ND (0.0039) |
| gamma-Chlordane | 0.1 | ND (0.0035) | ND (0.0039) | ND (0.0033) | ND (0.0035) | ND (0.0034) | ND (0.0034) |
| Dieldrin | 0.01 | ND (0.0063) | ND (0.0070) | ND (0.0060) | ND (0.0063) | ND (0.0061) | ND (0.0061) |
| 4,4'-DDD | 0.01 | ND (0.0047) | ND (0.0052) | ND (0.0045) | ND (0.0047) | ND (0.0046) | ND (0.0046) |
| 4,4'-DDE | 0.01 | ND (0.0041) | ND (0.0046) | ND (0.0040) | ND (0.0041) | ND (0.0040) | ND (0.0040) |
| 4,4'-DDT | 0.01 | ND (0.0056) | ND (0.0062) | ND (0.0054) | ND (0.0056) | ND (0.0055) | ND (0.0055) |
| Endrin | 0.01 | ND (0.0049) | ND (0.0055) | ND (0.0048) | ND (0.0049) | ND (0.0048) | ND (0.0048) |
| Endosulfan sulfate | 0.1 | ND (0.0044) | ND (0.0050) | ND (0.0043) | ND (0.0044) | ND (0.0044) | ND (0.0044) |
| Endrin aldehyde | - | ND (0.0055) | ND (0.0061) | ND (0.0053) | ND (0.0055) | ND (0.0054) | ND (0.0054) |
| Endrin ketone | - | ND (0.0051) | ND (0.0056) | ND (0.0049) | ND (0.0051) | ND (0.0050) | ND (0.0050) |
| Endosulfan-I | 0.1 | ND (0.0043) | ND (0.0048) | ND (0.0041) | ND (0.0043) | ND (0.0042) | ND (0.0042) |
| Endosulfan-II | 0.1 | ND (0.0040) | ND (0.0044) | ND (0.0038) | ND (0.0040) | ND (0.0039) | ND (0.0039) |
| Heptachlor | 0.01 | ND (0.0037) | ND (0.0041) | ND (0.0035) | ND (0.0037) | ND (0.0036) | ND (0.0036) |
| Heptachlor epoxide | 0.01 | ND (0.0049) | ND (0.0055) | ND (0.0047) | ND (0.0049) | ND (0.0048) | ND (0.0048) |
| Methoxychlor | 35 | ND (0.0055) | ND (0.0061) | ND (0.0053) | ND (0.0055) | ND (0.0054) | ND (0.0054) |
| Toxaphene | - | ND (0.13) | ND (0.15) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) |
| 2,4-D | 4.4 | ND (0.074) | ND (0.080) | ND (0.083) | ND (0.080) | ND (0.081) | ND (0.080) |
| 2,4,5-TP (Silvex) | 0.26 | ND (0.047) | ND (0.050) | ND (0.052) | ND (0.050) | ND (0.051) | ND (0.050) |
| 2,4,5-T | 35 | ND (0.014) | ND (0.015) | ND (0.016) | ND (0.015) | ND (0.016) | ND (0.015) |

Table 2
Ground Water Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Location ID | NYSDEC Ambient Water Quality Standards and Guidance Values* | TT-SB-22GW | TT-SB-23GW | TT-SB-27GW | TT-SB-30GW | TT-SB-31GW | GW-DUP01 |
|----------------------|---|------------|--------------------|------------|------------|------------|------------------|
| Sampling Date | | 12/6/2021 | 12/7/2021 | 12/6/2021 | 12/6/2021 | 12/6/2021 | 12/7/2021 |
| PCBs (ug/l) | | | | | | | |
| Aroclor 1016 | - | ND (0.16) | ND (0.18) | ND (0.15) | ND (0.16) | ND (0.15) | ND (0.16) |
| Aroclor 1221 | - | ND (0.34) | ND (0.38) | ND (0.32) | ND (0.35) | ND (0.32) | ND (0.34) |
| Aroclor 1232 | - | ND (0.21) | ND (0.24) | ND (0.20) | ND (0.22) | ND (0.20) | ND (0.21) |
| Aroclor 1242 | - | ND (0.19) | ND (0.21) | ND (0.18) | ND (0.19) | ND (0.18) | ND (0.18) |
| Aroclor 1248 | - | ND (0.10) | ND (0.11) | ND (0.097) | ND (0.10) | ND (0.097) | ND (0.10) |
| Aroclor 1254 | - | ND (0.34) | ND (0.38) | ND (0.32) | ND (0.34) | ND (0.32) | ND (0.33) |
| Aroclor 1260 | - | ND (0.12) | ND (0.14) | ND (0.12) | ND (0.13) | ND (0.12) | ND (0.12) |
| Aroclor 1268 | - | ND (0.14) | ND (0.16) | ND (0.13) | ND (0.14) | ND (0.13) | ND (0.14) |
| Aroclor 1262 | - | ND (0.16) | ND (0.18) | ND (0.15) | ND (0.16) | ND (0.15) | ND (0.15) |
| Metals (ug/L) | | | | | | | |
| Aluminum | 2000 | 7540 | 70900 | 5230 | 3950 | 1280 | <200 |
| Antimony | 6 | <6.0 | <30 ^c | <6.0 | <6.0 | <6.0 | <6.0 |
| Arsenic | 50 | 9.6 | 66.6 ^c | 8.7 | 9.4 | 3.2 | <15 ^c |
| Barium | 2000 | <200 | 1390 | 422 | <200 | <200 | <200 |
| Beryllium | 3 | <1.0 | 7.1 ^c | <1.0 | 1.1 | <1.0 | 2 |
| Cadmium | 10 | <3.0 | <15 ^c | <3.0 | 3 | <3.0 | <3.0 |
| Calcium | - | 44100 | 318000 | 259000 | 155000 | 118000 | 219000 |
| Chromium | 100 | 11.9 | 140 | 11.7 | <10 | <10 | <10 |
| Cobalt | - | <50 | 98.4 | <50 | <50 | <50 | <50 |
| Copper | 1000 | 17.7 | 233 ^c | 22.6 | 45.8 | <10 | <10 |
| Iron | 600 | 10000 | 376000 | 10600 | 10100 | 1940 | 275 |
| Lead | 25 | 20.3 | 258 ^c | 73.5 | 26.6 | 12.1 | <15 ^c |
| Magnesium | 35000 | 5430 | 86600 | 38100 | 52000 | 8100 | 283000 |
| Manganese | 600 | 297 | 10700 ^c | 2150 | 2770 | 463 | 20.5 |
| Mercury | 1.4 | <0.20 | 0.8 | <0.20 | <0.20 | <0.20 | <0.20 |
| Nickel | 200 | 11.2 | 206 | 21 | 15.1 | <10 | <10 |
| Potassium | - | <10000 | 38500 | 19900 | 11500 | 12000 | 193000 |
| Selenium | 20 | <10 | <50 ^c | <10 | <10 | <10 | <10 |
| Silver | 100 | <10 | <50 ^c | <10 | <10 | <10 | <10 |
| Sodium | - | 16000 | 170000 | 201000 | 494000 | 166000 | 4010000 |
| Thallium | 0.5 | <10 | <50 ^c | <10 | <10 | <10 | <10 |
| Vanadium | - | <50 | 209 | <50 | <50 | <50 | <50 |
| Zinc | 5000 | 56.8 | 501 | 48.9 | 53.7 | <20 | <20 |

Notes:

µg/L - micrograms per liter

NYSDEC - New York State Department of Environmental Conservation

*Ambient water quality guidance value

NA - Not Analyzed

- No criteria

ND- Indicates that the analyte was not detected above the sample-specific report

Values shaded in orange exceeded the NYSDEC Ground Water Quality Standards

^a Associated CCV outside of control limits high, sample was ND.

^b Associated CCV outside of control limits high, sample was ND. This compound

^c Elevated detection limit due to dilution required for high interfering element.

Table 3
Summary of Soil Sampling Results

Phase II Environmental Site Assessment
South Brooklyn Marine Terminal

| Sample ID | NYSDOH Air Guideline Values | TT-SB-33SV | TT-SB-32SV | TT-SB-25SV | TT-SB-24SV | TT-SB-39SV | TT-SB-37SV | TT-SB-19SV | TT-SB-14SV | TT-SB-16SV | TT-SB-36SV | TT-SB-02SV | TT-SB-17SV | TT-SB-21SV | TT-SB-A |
|--|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Lab Sample ID | | JD36521-1 | JD36521-2 | JD36521-3 | JD36521-4 | JD36521-5 | JD36521-6 | JD36521-8 | JD36521-9 | JD36521-10 | JD36521-11 | JD36521-12 | JD36521-13 | JD36521-14 | JD36521-7 |
| Date Sampled | | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 | 12/8/2021 |
| Matrix | | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Soil Vapor Comp. | Ambient Air Comp. |
| MS Volatiles (TO-15) - ug/m³ | | | | | | | | | | | | | | | |
| Acetone (2-Propanone) | - | 49.2 | 12 | 56.8 | 75.8 | 86 | 12 | 39.7 | 47.5 | 41.6 | 26.1 | 3.8 | 4.8 | 12 | 4.3 |
| 1,3-Butadiene | - | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.082) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.18) | ND (0.082) |
| Benzene | - | 5.1 | 1.2 | 0.7 | 4.2 | 45.4 | 3.2 | 2.3 | 3.2 | 1.9 | 7.7 | 3 | 2.9 | 0.77 | |
| Bromodichloromethane | - | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.14) | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.18) | ND (0.32) | ND (0.14) |
| Bromoform | - | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.31) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.38) | ND (0.69) | ND (0.31) |
| Bromomethane | - | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.070) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.15) | ND (0.070) |
| Bromoethene | - | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.079) | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.096) | ND (0.17) | ND (0.079) |
| Benzyl Chloride | - | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.23) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.29) | ND (0.52) | ND (0.23) |
| Carbon disulfide | - | 80 | 5.9 | 1.6 | 408 | 476 | 2.4 | 0.34 J | 17 | 1.6 | 0.37 J | 4 | ND (0.13) | ND (0.059) | |
| Chlorobenzene | - | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.097) | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.12) | ND (0.22) | ND (0.097) |
| Chloroethane | - | ND (0.13) | 1.7 | ND (0.13) | ND (0.13) | ND (0.10) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.23) | ND (0.10) |
| Chloroform | - | ND (0.098) | 9.8 | 0.49 J | ND (0.098) | ND (0.078) | 0.78 J | ND (0.098) | 0.88 J | 1.7 | 2 | 1.3 | 24 | ND (0.18) | ND (0.078) |
| Chloromethane | - | 0.31 J | 1.2 | ND (0.031) | 0.41 | 0.27 J | ND (0.031) | ND (0.031) | 0.20 J | ND (0.031) | ND (0.031) | ND (0.031) | ND (0.031) | 0.74 | 0.87 |
| 3-Chloropropene | - | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.10) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.22) | ND (0.10) |
| 2-Chlorotoluene | - | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.10) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.23) | ND (0.10) |
| Carbon tetrachloride | - | ND (0.15) | 1.5 | ND (0.15) | ND (0.15) | ND (0.12) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.26) | ND (0.12) |
| Cyclohexane | - | 372 | 1.3 | 7.9 | 56.5 | 134 | ND (0.076) | ND (0.076) | 1.9 | 0.55 J | 0.38 J | 2.1 | 11 | 0.27 J | |
| 1,1-Dichloroethane | - | ND (0.049) | 1.1 | ND (0.049) | ND (0.049) | ND (0.038) | ND (0.049) | 0.61 J | ND (0.049) | 4 | ND (0.049) | 6.5 | ND (0.085) | ND (0.038) | |
| 1,1-Dichloroethylene | - | ND (0.067) | ND (0.067) | ND (0.067) | ND (0.067) | 4 | ND (0.067) | ND (0.067) | ND (0.067) | ND (0.067) | ND (0.067) | ND (0.067) | ND (0.067) | ND (0.12) | ND (0.052) |
| 1,2-Dibromoethane (EDB) | - | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.11) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.25) | ND (0.11) |
| 1,2-Dichloroethane | - | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.069) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.085) | ND (0.15) | ND (0.069) |
| 1,2-Dichloropropane | - | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.069) | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.088) | ND (0.16) | ND (0.069) |
| 1,4-Dioxane | - | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.15) | 0.86 | ND (0.19) | 1.1 | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.34) | ND (0.15) |
| Dichlorodifluoromethane | - | 0.99 | 1.4 | 1.6 | 1.9 | 1.7 | 2.1 | 1.2 | 1.2 | 1.6 | 1.3 | 0.94 J | 1.2 | 1.5 J | 1.8 |
| Dibromochloromethane | - | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.23) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.28) | ND (0.51) | ND (0.23) |
| trans-1,2-Dichloroethylene | - | ND (0.029) | ND (0.029) | ND (0.029) | 0.63 J | 7.1 | ND (0.029) | ND (0.029) | ND (0.029) | ND (0.029) | ND (0.029) | ND (0.029) | ND (0.029) | ND (0.052) | ND (0.023) |
| cis-1,2-Dichloroethylene | - | ND (0.048) | ND (0.048) | ND (0.048) | 5.9 | 4.8 | ND (0.048) | ND (0.048) | ND (0.048) | ND (0.048) | ND (0.048) | ND (0.048) | ND (0.048) | ND (0.083) | ND (0.037) |
| cis-1,3-Dichloropropene | - | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.073) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.16) | ND (0.073) |
| m-Dichlorobenzene | - | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.090) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.20) | ND (0.090) |
| o-Dichlorobenzene | - | ND (0.13) | 0.84 | ND (0.13) | ND (0.13) | ND (0.10) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.23) | ND (0.10) |
| p-Dichlorobenzene | - | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.084) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.11) | ND (0.19) | ND (0.084) |
| trans-1,3-Dichloropropene | - | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.073) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.091) | ND (0.16) | ND (0.073) |
| Ethanol | - | 3.8 | 3 | 21.7 | 11 | 7 | 4.9 | 7.7 | 12 | 7.7 | 5.3 | 2.3 | 4 | 14 | 11 |
| Ethylbenzene | - | ND (0.065) | 1.2 | 0.61 J | 1 | 2.9 | 1.3 | 0.52 J | 1.4 | 0.96 | 0.87 | 0.83 J | 1.4 | 0.42 J | ND (0.052) |
| Ethyl Acetate | - | ND (0.14) | 4.3 | 8.3 | 10 | 15 | 20 | 4 | 4 | 4.3 | 5 | 4 | ND (0.14) | 30 | 65.1 |
| 4-Ethyltoluene | - | 21 | 2.7 | 0.98 | 2.1 | ND (0.12) | 2.8 | 1.4 | 2.6 | 1.7 | 2.3 | 2.2 | 2.6 | ND (0.26) | ND (0.12) |
| Freon 113 | - | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.11) | 4.6 | 0.29 J | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.24) | ND (0.11) |
| Freon 114 | - | ND (0.13) | ND (0.13) | ND (0.13) | 1.1 | ND (0.10) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.13) | ND (0.24) | ND (0.10) |
| Heptane | - | 422 | 0.78 J | 1.7 | 4.9 | 120 | 1.2 | 2 | 3.6 | 3.6 | 1.6 | 0.49 J | 0.94 | 3.5 | ND (0.057) |
| Hexachlorobutadiene | - | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.38) | 1.6 | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.49) | ND (0.87) | ND (0.38) |
| Hexane | - | 76.8 | 1.1 | 1.6 | 5.3 | 206 | 1.6 | 0.95 | 2.5 | 4.2 | 1.4 | 0.99 | 1.7 | 7.8 | 0.49 J |
| 2-Hexanone | - | ND (0.15) | ND (0.15) | 7.8 | 13 | ND (0.12) | ND (0.15) | 19 | ND (0.15) | 22 | 13 | 1.9 | ND (0.15) | ND (0.27) | ND (0.12) |
| Isopropyl Alcohol | - | 1.2 | 0.88 | 6.4 | 1.2 | 1.4 | 1.5 | 0.79 | 2.7 | 0.93 | 0.86 | 0.47 J | 1.1 | 1.8 | 2.2 |
| Methylene chloride | 60 | 0.73 | 0.87 | 0.8 | 2.3 | 1.1 | 1.4 | 0.52 J | ND (0.052) | ND (0.052) | ND (0.052) | 0.69 | ND (0.052) | ND (0.090) | 0.83 |
| Methyl ethyl ketone | - | 13 | 6.8 | 70.2 | 92.9 | 81.7 | 16 | 107 | 119 | 121 | 72 | 5 | 8.6 | 2.9 | 0.41 J |
| Methyl Isobutyl Ketone | - | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.12) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.26) | ND (0.12) |
| Methyl Tert Butyl Ether | - | ND (0.069) | ND (0.069) | 2.7 | ND (0.069) | ND (0.054) | ND (0.069) | ND (0.069) | ND (0.069) | ND (0.069) | ND (0.069) | ND (0.069) | ND (0.069) | ND (0.12) | ND (0.054) |
| Methylmethacrylate | - | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.11) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.14) | ND (0.24) | ND (0.11) |
| Propylene | - | 58.6 | 17 | 11 | ND (0.027) | ND (0.022) | ND (0.027) | 10 | 16 | 27.1 | ND (0.027) | ND (0.027) | 5.2 | ND (0.048) | ND (0.022) |
| Styrene | - | ND (0.081) | 0.89 | 0.60 J | 0.55 J | 0.43 J | 0.72 J | 0.77 J | 0.60 J | 0.94 | 0.55 J | 0.85 | 1.1 | ND (0.14) | ND (0.064) |
| 1,1,1-Trichloroethane | - | ND (0.18) | 21 | ND (0.18) | ND (0.18) | ND (0.15) | ND (0.18) | 4.9 | 1.3 | 3.4 | 3.1 | 1.1 | 29 | ND (0.32) | ND (0.15) |
| 1,1,2,2-Tetrachloroethane | - | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.15) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.19) | ND (0.34) | ND (0.15) |
| 1,1,2-Trichloroethane | - | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.13) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.16) | ND (0.29) | ND (0.13) |
| 1,2,4-Trichlorobenzene | - | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.53) | 0.97 | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) | ND (0.66) | ND (1.2) | ND (0.53) |
| 1,2,4-Trimethylbenzene | - | 11 | 2.6 | 0.93 J | 1.6 | 1.2 | 2.3 | 1.3 | 2.1 | 1.3 | 2.7 | 2 | 2.2 | ND (0.29) | ND (0.13) |
| 1,3,5-Trimethylbenzene | - | 16 | 0.74 J | ND (0.17) | ND (0.17) | 0.46 J | 0.79 J | ND (0.17) | 0.64 J | ND (0.17) | 1 | 0.54 J | 0.59 J | ND (0.29) | ND (0.13) |
| 2,2,4-Trimethylpentane | - | ND (0.10) | 0.65 J | 0.65 J | 75.7 | 58.4 | 0.56 J | ND (0.10) | 1.1 | 1.4 | ND (0.10) | ND (0.10) | 1.7 | ND (0.18) | 0.43 J |
| Tertiary Butyl Alcohol | - | 2.8 | 3.6 | 2.8 | 4.2 | 3 | 3.3 | 2.8 | 8.8 | 4.5 | 2.8 | 0.73 | 2.1 | ND (0.076) | ND (0.033) |
| Tetrachloroethylene | - | 2.8 | 5.3 | 8.1 | 4.7 | 5 | 11 | 2 | 5.8 | 5.8 | 1.9 | 2.9 | 5.1 | ND (0.37) | 0.36 |
| Tetrahydrofuran | - | ND (0.15) | 0.35 J | ND (0.15) | ND (0.15) | ND (0.12) | 14 | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | ND (0.15) | 0.77 | ND (0.27) | ND (0.12) |
| Toluene | - | 51.6 | 3.4 | 1.7 | 2.8 | 11 | 4.9 | 1.5 | 3.4 | 4.9 | 2.1 | 2 | 5.3 | 2.3 | 1.5 |
| Trichloroethylene | - | ND (0.10) | 0.7 | 12 | ND (0.10) | ND (0.081) | 1.5 | ND (0.10) | ND (0.10) | 1 | ND (0.10) | ND (0.10) | ND (0.10) | ND (0.18) | ND (0.081) |
| Trichlorofluoromethane | - | ND (0.16) | 0.96 | 1 | 0.62 | 0.46 | 20 | 0.62 | 0.55 J | 1.3 | 1.1 | ND (0.1 | | | |

Appendix A – Soil Boring Logs

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/18/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/18/2021 |
| Boring #: | TT-SB-01 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-----------|-----------|--|-------|------------|-----------|---|
| TT-SB-01 0-5 | | | NA | CONCRETE | Gt | | 0.0-1.0' Concrete | 12:00 | 11/18/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Dk.Br./Bl | | 1.0-1.5' F-M SAND, some Brick and Metal, little Silt and F Gravel | | | 0.0 | |
| | | | | | Bl. | | 1.5-5.0' F-M SAND and F GRAVEL, little Brick, Concrete and Ash, Tr Silt. | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-01 5-10 Run#1 | | | 26" | SW | Br. | | 5.0-10.0' F SAND, some Silt and F Gravel, little Brick. | 11:50 | 11/18/2021 | 0.0 | Collected Soil Sample TT-SB-01-6.5-8.5 @ 1223 |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 12/09/2021

BORING NUMBER: TT-SB-02

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/18/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/18/2021 |
| Boring #: | TT-SB-02 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|----------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|-------|------------|-----------|--|
| TT-SB-02 0-5 | | | NA | CONCRETE | Gt | | 0.0-1.0' Concrete | 13:28 | 11/18/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Bl. | | 1.0-3.0' F-M SAND, some F-M Gravel and Ash, little Silt. | | | 0.0 | |
| | | | | | Br. | | 3.0-5.0' F-M SAND and F GRAVEL, little Brick, Concrete and Ash, Tr Silt. | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-02 5-10 Run#1 | | | 26" | SW | Br. | | 5.0-10.0' F SAND, some F-M Gravel and Silt. | 13:36 | 11/18/2021 | 0.0 | Collected Soil Sample TT-SB-02- 7.0-9.0 @ 1340 |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| TT-SB-02 10-15 Run#2 | | | 32" | SW | Gr./Br. | | 10.0-15.0' F-M SAND, little Silt, Saturated. | 13:45 | 11/18/2021 | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | | | | 0.0 | |
| | 20.0 | | | | | | End of Boring at 15'bgs. Installed soil vapor point | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW Sample (TT-SB-02GW) on 12/07/2021 @ 1535
 Collected SV Sample (TT-SB-02SV) on 12/09/2021 @0920
 Patched on 12/09/2021

BORING NUMBER: TT-SB-03

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/19/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/19/2021 |
| Boring #: | TT-SB-03 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|---|------|------------|-----------|---|
| TT-SB-03 5 | 0 | | NA | CONCRETE | Gr. | | 0.0-1.0' Concrete | 9:08 | 11/19/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 1.0-2.0' F SAND, little Silt and F Gravel, tr Metal and Concrete. | | | 0.0 | |
| | | | | | | | 2.0-5.0' F-M SAND, some F-M Gravel, Brick and Concrete, tr. Silt. | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-03 5-10 Run#1 | | | 42" | FILL | Br. | | 5.0-7.0' Br. F SAND, some F Gravel, Brick and Concrete, tr. Silt. | 9:10 | 11/19/2021 | 0.0 | Collected Soil Sample TT-SB-03- 7.0-9.0 @ 09:26 |
| | | | | | | | SW | | | Gr./Br. | |
| | | | | | | | | | | | |
| | 10.0 | | | | | | 0.0 | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/19/2021

BORING NUMBER: TT-SB-04

Field Boring Log Sheet



Project: SBMT - Equinor
 Project #: 194-1247-0003
 Boring #: TT-SB-04
 Total Depth (ft): 10' bgs.
 Geologist: A.Valli
 Driller: Cascade/ADT
 Drilling/Sampling Method: GeoProbe 7728

Date Started: 11/19/2021
 Date Completed: 11/19/2021
 Groundwater Depth (ft): 9.5' bgs.
 Ground Elevation (ft): NA
 X Coordinate:
 Y Coordinate:
 GPS Datum: NAD83

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|-------|------------|-----------|---|
| TT-SB-04 0-5 | | | NA | CONCRETE | Gr. | | 0.0-2.0' Concrete | 10:23 | 11/19/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 2.0-5.0' F-M SAND, some F-M Gravel, Brick and Concrete, tr. Silt. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-04 5-10 Run#1 | | | 40" | FILL | Br. | | 5.0-9.5' Br. F SAND, some F-M Gravel, Brick, Metal and Concrete, little Silt | 10:30 | 11/19/2021 | 0.0 | Collected Soil Sample TT-SB-04- 7.5-9.5 @ 10:41 |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | 0.0 | | | | | | | |
| | | | | SW | Gr./Br. | | 9.5-10.0' Gr.Br. F-M SAND, little Silt and F Gravel. | | | | |
| | 15.0 | | | | | | End of Boring at 10' bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/19/2021

BORING NUMBER: TT-SB-05

Field Boring Log Sheet



Project: SBMT - Equinor
 Project #: 194-1247-0003
 Boring #: TT-SB-05
 Total Depth (ft): 10'bgs.
 Geologist: A.Valli
 Driller: Cascade/ADT
 Drilling/Sampling Method: GeoProbe 7728

Date Started: 11/19/2021
 Date Completed: 11/19/2021
 Groundwater Depth (ft): 8.5'bgs.
 Ground Elevation (ft): NA
 X Coordinate:
 Y Coordinate:
 GPS Datum: NAD83

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|---|-------|------------|-----------|--|
| TT-SB-05 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5'6" Asphalt and subbase. | 13:30 | 11/19/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | | | | 0.5-6.0' Br. F SAND and Brick | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | FILL | Br. | | | | | 0.0 | |
| TT-SB-05 5-10 Run#1 | | | 43" | | | | | 13:44 | 11/19/2021 | 0.0 | Collected Soil Sample TT-SB-05- 6.5-8.5 @ 13:50 (w/ Duplicate Sample DUP-01) |
| | | | | | | | 6.0-9.0' Fine SAND, some Gravel, Brick and wood, little Silt. | | | 0.0 | |
| | | | | SW | Br. | | | | | 11.8 | |
| | 10.0 | | | SP | Gr./Br. | | 9.0-10.0' Gr.Br. F-M SAND, little Silt and F Gravel. | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/19/2021

BORING NUMBER: TT-SB-06

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/22/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-06 | Groundwater Depth (ft): | 7.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|--------|-----------|--|------|------------|-----------|---|
| TT-SB-06 5 | 0 | | NA | ASPHALT | Bl. | | 0.0-0.5' Asphalt and subbase. | 9:15 | 11/22/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | | | | 0.5-5.0' F SAND, some F-M Gravel, Concrete and Brick, little Silt. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | FILL | Br. | | | | 0.0 | |
| TT-SB-06 5-10 Run#1 | | | 41" | SW | Rd Br. | | 5.0-7.0' Fine SAND, little F Gravel and Silt. | 9:22 | 11/22/2021 | 0.0 | Collected Soil Sample TT-SB-06- 5.0-7.0 @ 13:50 |
| | | | | | | | 7.0-10.0' F-M SAND, some F Gravel, tr. Silt, Wet. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | SP | Dk. Br. | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-06GW on 12/07/2021 @ 14:20
Patched on 12/09/2021

BORING NUMBER: TT-SB-07

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/22/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/22/2021 |
| Boring #: | TT-SB-07 | Groundwater Depth (ft): | 8.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|---|-------|------------|-----------|---|
| TT-SB-07 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5' Asphalt and subbase. | 12:05 | 11/22/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Dk. Br. | | 0.5-5.0' F SAND, Gravel Brick and Concrete, little Silt and Wood. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-07 5-10 Run#1 | | | 32" | | Bl. | | 5.0-6.0' Fine SAND, some F Gravel, Concrete and Wood. | 12:11 | 11/22/2021 | 0.0 | Collected Soil Sample TT-SB-07- 6.0-8.0 @ 12:23 |
| | | | | SP | Bl. | | 6.0-10.0' F-M SAND, some F-M Gravel. Saturated | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/22/2021

BORING NUMBER: TT-SB-08

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/22/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/22/2021 |
| Boring #: | TT-SB-08 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|------------|-----------|---|-------|------------|-----------|--|
| TT-SB-08 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5' Asphalt and subbase. | 13:40 | 11/22/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Dk. Br/Bl. | | 0.5-5.0' F SAND, some F Gravel, little concrete, petro odor. | | | 2.0 | |
| | | | | | | | | | | 5.0 | |
| | 5.0 | | | | | | | | | 10.0 | |
| TT-SB-08 5-10 Run#1 | | | 29" | SW | Gr. | | 5.0-7.0' Fine SAND, some F-M Gravel, little Brick, gasoline odor. | 13:50 | 11/22/2021 | 18.0 | Collected Soil Sample TT-SB-08- 7.0-9.0 @ 14:04 High PID at 7.5' |
| | | | | SP | Gr./Br. | | 7.0-10.0' F-M SAND, little F Gravel and Silt. Saturated @ 9.0'bgs | | | 32.7 | |
| | | | | | | | | | | 87.9 | |
| | 10.0 | | | | | | | | | 61.1 | |
| | | | | | | | End of Boring at 10'bgs. | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 15.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 20.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/22/2021

BORING NUMBER: TT-SB-09

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/23/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/23/2021 |
| Boring #: | TT-SB-09 | Groundwater Depth (ft): | 7.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|------------|-----------|---|------|------------|-----------|--|
| TT-SB-09 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5' Asphalt and subbase. | 8:45 | 11/23/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Dk. Br/Bl. | | 0.5-6.0' F SAND, F Gravel, concrete, brick and wood, slight petro odor. | | | 0.0 | |
| | | | | | | | | | | 0.8 | |
| | 5.0 | | | | | | 2.3 | | | | |
| TT-SB-09 5-10 Run#1 | | | 44" | SW | Br. | | 6.0-8.0' F SAND, some F Gravel, little brick and wood, slight petro odor. Wet @ 7.0'bgs | 8:51 | 11/23/2021 | 3.2 | Collected Soil Sample TT-SB-09- 5.0-7.0 @ 09:15 High PID at 5.5' |
| | | | | SP | Gr./Br. | | 8.0-10.0' F-M SAND, little F Gravel, tr Silt. Saturated | | | 3.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | 0.0 | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/23/2021

BORING NUMBER: TT-SB-10

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/23/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/23/2021 |
| Boring #: | TT-SB-10 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------------|---|-------|------------|-----------|---|
| TT-SB-10 0-5 | | | NA | ASPHALT | Bl. | [Patterned Box] | 0.0-0.5' Asphalt and subbase. | 10:45 | 11/23/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Bl. | | 0.5-3.0' F SAND and GRAVEL, little concrete and brick. | | | 0.0 | |
| | | | | | | | 3.0-4.5' Brick | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-10 5-10 Run#1 | | | 34" | SW | Br. | [Patterned Box] | 5.0-7.0' F SAND and brick, little F Gravel | 10:51 | 11/23/2021 | 2.5 | Collected Soil Sample TT-SB-10- 7.0-9.0 @ 11:06 |
| | | | | SP | Bl. | | 7.0-10.0' F SAND and F-M Gravel, some wood and asphalt. | | | 3.2 | |
| | | | | | | | | | | 3.7 | |
| | 10.0 | | | | | | | | | 0.6 | |
| | | | | | | | End of Boring at 10'bgs. | | | | |
| | 15.0 | | | | | | | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/23/2021

BORING NUMBER: TT-SB-11

Field Boring Log Sheet



| | | | |
|---------------------------|-----------------------|-------------------------|-------------------|
| Project: | <u>SBMT - Equinor</u> | Date Started: | <u>11/23/2021</u> |
| Project #: | <u>194-1247-0003</u> | Date Completed: | <u>11/23/2021</u> |
| Boring #: | <u>TT-SB-11</u> | Groundwater Depth (ft): | <u>8.5'bgs.</u> |
| Total Depth (ft): | <u>10'bgs.</u> | Ground Elevation (ft): | <u>NA</u> |
| Geologist: | <u>A.Valli</u> | X Coordinate: | <u></u> |
| Driller: | <u>Cascade/ADT</u> | Y Coordinate: | <u></u> |
| Drilling/Sampling Method: | <u>GeoProbe 7728</u> | GPS Datum: | <u>NAD83</u> |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|------------|-----------|---|-------|------------|-----------|---|
| TT-SB-11 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5' Asphalt and subbase. | 13:15 | 11/23/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | | | | 0.5-3.0' Compacted Gravel | | | 0.0 | |
| | | | | FILL | Br. | | 3.0-6.0' F SAND, some F Gravel, brick and concrete. | | | 0.0 | |
| | 5.0 | | | | | | | | | 1.2 | |
| TT-SB-11 5-10 Run#1 | | | 48" | | | | 6.0-8.0' F SAND, some F Gravel, little Silt, Moist, slight petro odor | 13:20 | 11/23/2021 | 0.8 | Collected Soil Sample TT-SB-11- 6.5-8.5 @ 13:35 PID in Headspace - 10.5 |
| | | | | SW | Bl. | | | | | 1.0 | |
| | | | | SP | Bl./Dk.Br. | | 8.0-10.0' F-M SAND, little F Gravel, tr. Silt - Wet at 8.5'bgs | | | 1.2 | |
| | 10.0 | | | | | | | | | 0.6 | |
| | | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | | | | | | | | | | | |
| | 20.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/23/2021

BORING NUMBER: TT-SB-12

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/24/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-12 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|------|------------|-----------|---|
| TT-SB-12 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5'6" Asphalt and subbase. | 8:30 | 11/24/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | | | | 0.5-5.0' F SAND and F-M Gravel, some brick, wood and concrete. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | FILL | Bl. | | | | | 0.0 | |
| TT-SB-12 5-10 Run#1 | | | 22" | | Bl./Br. | | 5.0-8.0' F SAND, some F-M Gravel, little brick, wood and concrete. | 8:55 | 11/24/2021 | 0.0 | Collected Soil Sample TT-SB-12- 7.0-9.0 @ 09:08 |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | SP | Dk.Br. | | 8.0-10.0' F-M SAND, some F-M Gravel - Wet at 9.0'bgs | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-12GW on 12/07/2021 @ 11:05 (w/GW duplicate sample GW-DUP01 Patched on 12/07/2021

BORING NUMBER: TT-SB-13

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/29/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-13 | Groundwater Depth (ft): | 9.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|------|------------|-----------|---|
| TT-SB-13 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1.0' 6" Asphalt and 4" subbase. | 8:22 | 11/29/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Bl. | | 1.0-5.0' F SAND, some F-M Gravel, brick and concrete, little Silt. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-13 5-10 Run#1 | | | 30" | SW | Bl./Br. | | 5.0-9.0' F SAND, some F-M Gravel, little brick and concrete. | 9:00 | 11/29/2021 | 0.0 | Collected Soil Sample TT-SB-13- 7.5-9.5 @ 09:10 |
| | | | | SP | Dk.Br. | | 9.0-10.0' F-M SAND, little F-M Gravel - Wet at 9.5'bgs | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-13GW on 12/07/2021 @ 13:20
Patched on 12/09/2021

BORING NUMBER: TT-SB-14

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/29/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-14 | Groundwater Depth (ft): | 9.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|--------|-----------|--|------|------------|-----------|---|
| TT-SB-14 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1.0' 6" Asphalt and 4" subbase. | 9:49 | 11/29/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Bl. | | 1.0-5.5' F SAND and F-M Gravel, some brick and concrete. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-14 5-10 Run#1 | | | 45" | SW | Br. | | 5.5-6.5' F SAND, little F Gravel and Silt | 9:57 | 11/29/2021 | 0.0 | Collected Soil Sample TT-SB-14- 7.5-9.5 @ 10:09 |
| | | | | FILL | Bl. | | 6.5-7.5' ASH | | | 0.0 | |
| | | | | SW | Br. | | 7.5-8.5' F SAND, little Silt. | | | 0.0 | |
| | 10.0 | | | SP | Dk.Br. | | 8.5-10.0' F-M SAND, little F-M Gravel, tr. Silt - Wet at 9.5'bgs | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-14SV on 12/08/2021 @ 16:32
Patched on 12/09/2021

BORING NUMBER: TT-SB-15

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/29/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 11/29/2021 |
| Boring #: | TT-SB-15 | Groundwater Depth (ft): | 9.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|---|-------|------------|-----------|---|
| TT-SB-15 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1.0' 6" Asphalt and 4" subbase. (Geo-Mat) | 10:33 | 11/29/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Gr. | | 1.0-2.0' F-M SAND and F-M Gravel. | | | 0.0 | |
| | | | | | Bl. | | 2.0-5.0' F SAND, some F-M Gravel, little Silt and Concrete. | | | 0.0 | |
| | 5.0 | | | | | | 0.0 | | | | |
| TT-SB-15 5-10 Run#1 | | | 36" | | Bl. | | 5.0-8.5' F SAND and ASH, some F-M Gravel. | 11:01 | 11/29/2021 | 0.0 | Collected Soil Sample TT-SB-15- 7.5-9.5 @ 11:09 |
| | | | | SP | Br. | | 8.5-10.0' F-M SAND, some F Gravel - Wet at 9.5'bgs | | | 0.0 | |
| | | | | | | | 0.0 | | | | |
| | 10.0 | | | | | | 0.0 | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Patched on 11/29/2021

BORING NUMBER: TT-SB-17

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/29/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-17 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|---|-------|------------|-----------|---|
| TT-SB-17 0-5 | | | NA | Concrete | Gr. | | 0.0-0.5' Re-enforced Concrete | 13:38 | 11/29/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Bl. | | 0.5-3.0' F SAND and F-M Gravel, some Ash and Concrete. | | | 0.0 | |
| | | | | | | | 3.0-7.0' F SAND, some F-M Gravel, little Silt. | | | 0.0 | |
| | 5.0 | | | SP | Br. | | | | | 0.0 | |
| TT-SB-17 5-10 Run#1 | | | 39" | | | | 7.0-10.0' F-M SAND, some F Gravel, little Silt. Wet@9.0'bgs | 13:45 | 11/29/2021 | 0.0 | Collected Soil Sample TT-SB-17- 7.0-9.0 @ 13:55 |
| | | | | | | | | | | 0.0 | |
| | | | | SP | Br. | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-17SV on 12/08/2021 @ 17:39
Patched on 12/09/2021

BORING NUMBER: TT-SB-18

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/29/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-18 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|-------|------------|-----------|---|
| TT-SB-18 0-5 | | | NA | ASPHALT | Gr. | | 0.0-0.5' 4" Asphalt and 2" Subbase | 14:40 | 11/29/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Dk. Br. | | 0.5-4.0' F SAND, some F-M Gravel, Brick and Concrete. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-18 5-10 Run#1 | | | 45" | SW | Br. | | 4.0-8.0' F SAND, little F Gravel and Silt. | 14:42 | 11/29/2021 | 0.0 | Collected Soil Sample TT-SB-18- 7.0-9.0 @ 14:56 |
| | | | | SW | Gr. | | 8.0-10.0' F-M SAND, little F Gravel, tr. Silt. Wet@9.0'bgs | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-18GW on 12/07/2021 @ 12:15
Patched on 12/09/2021

BORING NUMBER: TT-SB-19

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/30/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-19 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|---|------|------------|-----------|---|
| TT-SB-19 0-5 | | | NA | ASPHALT | Gr. | | 0.0-0.67' 4" Asphalt and 2" Subbase. | 8:30 | 11/30/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | SP | Br. | | 0.67-5.0' F SAND and F-M Gravel, some Ash and Concrete. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-19 5-10 Run#1 | | | 39" | SM | Br. | | 5.0-6.0' F SAND, little Silt, tr. F Gravel | 8:35 | 11/29/2021 | 0.0 | Collected Soil Sample TT-SB-19- 7.0-9.0 @ 08:48 |
| | | | | FILL | Br. | | 6.0-6.5' F SAND, some Silt, little Brick and F Gravel. | | | 0.0 | |
| | | | | SM | Br. | | 6.5-8.0' F SAND, little Silt, tr. F Gravel | | | 0.0 | |
| | | | | FILL | Br. | | 8.0-9.0' F SAND, some Silt, little Brick and F Gravel, Moist. | | | 0.0 | |
| | 10.0 | | | SP | Gr. | | 9.0-10.0' F-M SAND, some F Gravel, little Silt, Wet | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-19SV on 12/08/2021 @ 16:29
Patched on 12/09/2021

BORING NUMBER: TT-SB-20

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/30/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-20 | Groundwater Depth (ft): | 8.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|---|--|------|------------|--------------------|---|
| TT-SB-20 0-5 | | | NA | ASPHALT | Bl. | [Green Box] | 0.0-0.33' 4" Asphalt | 9:18 | 11/30/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | [Yellow Box] | | | 0.33-1.5' Concrete | |
| | | | | SW | Br. | 1.5-5.0' F SAND, some F Gravel little Silt. | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| TT-SB-20 5-10 Run#1 | | | 36" | FILL | Bl. | [Blue Box] | 5.0-6.0' F SAND, some F-M Gravel, Brick and Concrete. | 9:24 | 11/30/2021 | 0.0 | Collected Soil Sample TT-SB-20- 6.5-8.5 @ 09:36 |
| | | | | SW | Dk. Br. | [Yellow Box] | 6.0-8.0' F SAND, some F Gravel, little Silt. | | | 0.0 | |
| | | | | SP | Br. | | 8.0-10.0' F SAND, some Silt and F-M Gravel. Wet at 8.5'bgs. | | | 0.0 | |
| | 10.0 | | | | | | 0.0 | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-20GW on 12/06/2021 @ 13:20
Patched on 12/07/2021

BORING NUMBER: TT-SB-21

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/30/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-21 | Groundwater Depth (ft): | 8.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|-------|------------|-----------|---|
| TT-SB-21 0-5 | | | NA | ASPHALT | Gr. | | 0.0-0.67' 6" Asphalt and 2" Subbase. | 10:10 | 11/30/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 0.67-5.0' F SAND, some Silt and F-M Gravel, little Brick and Concrete. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-21 5-10 Run#1 | | | 43" | FILL | Gr./Br. | | 5.0-10.0' F SAND and Silt, little F Gravel, tr. Brick. Wet at 8.5'bgs | 10:16 | 11/30/2021 | 0.0 | Collected Soil Sample TT-SB-21- 6.5-8.5 @ 10:28 |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.7 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-21SV on 12/08/2021 @ 17:46
Patched on 12/09/2021

BORING NUMBER: TT-SB-22

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/30/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-22 | Groundwater Depth (ft): | 8.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|--------------|--|-------|------------|--|---|
| TT-SB-22 0-5 | | | NA | ASPHALT | Bl. | [Green Box] | 0.0-0.8' 6" Asphalt, 4" Subbase | 11:16 | 11/30/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | [Blue Box] | | | 0.8-1.5' Concrete | |
| | | | | FILL | Br. | [Grey Box] | | | | 1.5-5.0' F SAND, some F-M Gravel, little Silt and Brick. | |
| | 5.0 | | | | | | | | | | |
| TT-SB-22 5-10 Run#1 | | | 36" | SW | Br. | [Yellow Box] | 5.0-6.0' F SAND, some Silt, little F Gravel. | 11:22 | 11/30/2021 | 0.0 | Collected Soil Sample TT-SB-22- 6.5-8.5 @ 11:33 |
| | | | | SM | Dk. Br. | | 6.0-7.0' F SAND, some Silt, little | | | 0.0 | |
| | | | | SP | Dk. Br. | | 7.0-10.0' F SAND, little Silt and F Gravel. Wet at 8.5' | | | 0.0 | |
| | 10.0 | | | | | | 0.0 | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-22GW on 12/06/2021 @ 15:22
Patched on 12/07/2021

BORING NUMBER: TT-SB-23

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|------------|
| Project: | SBMT - Equinor | Date Started: | 11/30/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-23 | Groundwater Depth (ft): | 9.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|--|-------|------------|-----------|---|
| TT-SB-23 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.5' 6" Asphalt | 13:09 | 11/30/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 0.5-1.5' 4" Concrete, 4" Cobblestone | | | 0.0 | |
| | | | | FILL | Br. | | 1.5-2.0' F SAND, some F-M Gravel, Brick and Concrete. | | | 0.0 | |
| | | | | CONCRETE | Gr. | | 2.0-2.33' 4" Concrete | | | 0.0 | |
| | 5.0 | | | FILL | Br. | | 2.33-5.0' F SAND, some F Gravel, little Silt and Brick. | | | 0.0 | |
| TT-SB-23 5-10 Run#1 | | | 29" | SW | Br. | | 5.0-7.0' F SAND, little Silt and F Gravel. | 13:16 | 11/30/2021 | 0.0 | Collected Soil Sample TT-SB-23- 7.5-9.5 @ 13:30 |
| | | | | SM | Br. | | 7.0-8.0' F SAND and Silt, little Clay, Moist | | | 0.0 | |
| | | | | SM | Br. | | 8.0-10.0' F SAND, little Silt Wet at 9.5' | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 15.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 20.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-23GW on 12/07/2021 @ 08:32
Patched on 12/07/2021

BORING NUMBER: TT-SB-24

Field Boring Log Sheet



Project: SBMT - Equinor
 Project #: 194-1247-0003
 Boring #: TT-SB-24
 Total Depth (ft): 10'bgs.
 Geologist: A.Valli
 Driller: Cascade/ADT
 Drilling/Sampling Method: GeoProbe 7728

Date Started: 12/1/2021
 Date Completed: 12/9/2021
 Groundwater Depth (ft): 8.5'bgs.
 Ground Elevation (ft): NA
 X Coordinate:
 Y Coordinate:
 GPS Datum: NAD83

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|------|-----------|-----------|--|
| TT-SB-24 0-5 | | | NA | ASPHALT | Gr. | | 0.0-0.67' 6" Asphalt and 4" Subbase. | 8:16 | 12/1/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Dk. Br. | | 0.67-5.0' F-M SAND, some F-M Gravel, Brick and Concrete. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-24 5-10 Run#1 | | | 36" | FILL | BL. | | 5.0-7.0' F SAND, some F-M Gravel, Brick and Concrete, Little Wood. | 8:30 | 12/1/2021 | 0.0 | Collected Soil Sample TT-SB-24- 6.5-8.5 @ 08:51 w/duplicate sample SDUP-02 |
| | | | | SM | Br. | | 7.0-8.0' F SAND, some Silt, tr. Clay, moist | | | 1.2 | |
| | | | | FILL | Br. | | 8.0-10.0' F SAND, some Silt, little Brick and concrete, Wet at 8.5'bgs.. | | | 2.1 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-24SV on 12/08/2021 @ 15:00
 Patched on 12/09/2021

BORING NUMBER: TT-SB-26

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/1/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-26 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|---|-------|-----------|-----------|---|
| TT-SB-26 0-5 | | | NA | ASPHALT | Gr. | [Green] | 0.0-0.5' 4" Asphalt, 2" Subbase. | 10:25 | 12/1/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 0.5-2.0' F SAND, some F-M Gravel. Slight Petro Odor. | | | 0.0 | |
| | 5.0 | | | SW | Gr. | | 2.0-5.0' F SAND, little F Gravel and Silt. Petro Odor. | | | 5.7 | |
| TT-SB-26 5-10 Run#1 | | | 25" | SM | Gr. | [Yellow] | 5.0-8.0' F SAND, some Silt and F Gravel. Strong Petro Odor. | 10:30 | 12/1/2021 | 18.0 | Collected Soil Sample TT-SB-26- 6.0-8.0 @ 10:38 |
| | | | | SP | Br. | | 8.0-9.5' F SAND and F-M Gravel, moist @ 9.0'bgs. | | | 24.0 | |
| | 10.0 | | | SP | Br. | | 9.5-10.0' F SAND, some Silt and F Gravel. Wet. | | | 36.8 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Could not Collect SV sample TT-SB-26SV - SV point flooded
Patched on 12/09/2021

BORING NUMBER: TT-SB-27

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/1/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-27 | Groundwater Depth (ft): | 7.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|----------------|--|-------|-----------|-----------|---|
| TT-SB-27 0-5 | | | NA | ASPHALT | Bl. | [Green/Gravel] | 0.0-0.83' Asphalt | 11:25 | 12/1/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 0.83-1.5' Concrete | | | 0.0 | |
| | | | | SW | Br. | | 1.5-5.0' F SAND, little Silt and F Gravel. | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-27 5-10 Run#1 | | | 28" | SM | Br. | [Yellow/Sand] | 5.0-8.0' F SAND, some Silt, little F Gravel. Wet at 7.0'bgs | 11:34 | 12/1/2021 | 0.0 | Collected Soil Sample TT-SB-27- 5.0-7.0 @ 11:47 |
| | | | | SP | Br. | | 8.0-8.5' F-M SAND and F Gravel. | | | 0.0 | |
| | | | | SM | Br. | | 8.5-10.0' F SAND, some Silt, little F Gravel. | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-27GW on 12/06/2021 @ 12:01
Patched on 12/07/2021

BORING NUMBER: TT-SB-28

Field Boring Log Sheet



Project: SBMT - Equinor
 Project #: 194-1247-0003
 Boring #: TT-SB-28
 Total Depth (ft): 10'bgs.
 Geologist: A.Valli
 Driller: Cascade/ADT
 Drilling/Sampling Method: GeoProbe 7728

Date Started: 12/1/2021
 Date Completed: 12/1/2021
 Groundwater Depth (ft): 8.0'bgs.
 Ground Elevation (ft): NA
 X Coordinate: _____
 Y Coordinate: _____
 GPS Datum: NAD83

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|-------|-----------|-----------|---|
| TT-SB-28 0-5 | | | NA | ASPHALT | Bl. | | 0.0-0.83' 6" Asphalt, 4" Subbase | 13:23 | 12/1/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Bl. | | 0.83-2.0' F SAND, little F Gravel and Brick. | | | 0.0 | |
| | | | | CONCRETE | Gr. | | 2.0-3.0' Concrete | | | 0.0 | |
| | | | | FILL | Bl. | | 3.0-4.0' ASH | | | 0.0 | |
| | 5.0 | | | FILL | Bl. | | 3.0-5.0' F SAND, some Silt, little F Gravel, Brick and Concrete. | | | 0.0 | |
| TT-SB-28 5-10 Run#1 | | | 29" | SM | Br. | | 5.0-7.0' F SAND, some Silt, little F Gravel. | 13:32 | 12/1/2021 | 0.0 | Collected Soil Sample TT-SB-28- 7.0-9.0 @ 13:47 |
| | | | | SW | Dk. Br. | | 7.0-8.0' F SAND, little Silt and F Gravel. Saturated @ 8' bgs | | | 0.0 | |
| | | | | SW | Br. | | 8.0-10.0' F SAND, some F Gravel, little Silt. | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Patched on 12/01/2021

BORING NUMBER: TT-SB-29

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/1/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/1/2021 |
| Boring #: | TT-SB-29 | Groundwater Depth (ft): | 7.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|---|--|-------|-----------|-----------|---|
| TT-SB-29 0-5 | | | NA | ASPHALT | Bl. | [Color swatches: Green, Yellow, Blue, Grey, Yellow] | 0.0-0.5' Asphalt | 14:34 | 12/1/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 0.5-1.5' Concrete | | | 0.0 | |
| | | | | SP | Br. | | 1.5-3.0' F SAND, some F Gravel, little Silt. | | | 0.0 | |
| | | | | FILL | Bl. | | 3.0-4.0' ASH | | | 0.0 | |
| | 5.0 | | | FILL | Br. | | 4.0-5.0' F SAND, some Silt, little F Gravel, Brick and Concrete. | | | 0.0 | |
| TT-SB-29 5-10 Run#1 | | | 34" | SM | Br. | [Color swatch: Yellow] | 5.0-7.0' F SAND, some Silt, little F Gravel, Moist @ 6.0'bgs | 14:40 | 12/1/2021 | 0.0 | Collected Soil Sample TT-SB-29- 4.0-6.0 @ 14:56 |
| | | | | SW | Dk. Br. | | 7.0-9.0' F SAND, little Silt and F Gravel. Saturated | | | 0.0 | |
| | 10.0 | | | SW | Rd. Br. | | 9.0-10.0' F SAND, little Silt and F Gravel. | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Patched on 12/01/2021

BORING NUMBER: TT-SB-30

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/2/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-30 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|--------------|--|------|-----------|---|---|
| TT-SB-30 0-5 | | | NA | ASPHALT | Bl. | [Green Box] | 0.0-0.5' Asphalt | 8:36 | 12/2/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | [Yellow Box] | | | 0.5-1.5' Concrete | |
| | | | | SP | Br. | [Blue Box] | | | | 1.5-3.0' F-M SAND, some F-M Gravel. | |
| | 5.0 | | | FILL | Bl. | | | | | 2.0-7.0' F-M SAND and F Gravel, little Brick and Concrete.. | |
| TT-SB-30 5-10 Run#1 | | | 27" | | | [Yellow Box] | 7.5-10.0' F SAND, some Silt, little F Gravel. Moist @ 9.0'bgs | 8:42 | 12/2/2021 | 0.0 | Collected Soil Sample TT-SB-30- 7.0-9.0 @ 08:53 |
| | | | | SP | Br. | | | | | 0.0 | |
| | | | | | | 0.0 | | | | | |
| | 10.0 | | | | | 0.0 | | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-30GW on 12/06/2021 @ 10:37
Patched on 12/07/2021

BORING NUMBER: TT-SB-31

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/2/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/7/2021 |
| Boring #: | TT-SB-31 | Groundwater Depth (ft): | 8.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------------------|--|-------|-----------|-----------|---|
| TT-SB-31 0-5 | | | NA | ASPHALT | Bl. | [Green/Orange Shaded] | 0.0-0.5' Asphalt | 9:50 | 12/2/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 0.5-1.0' Concrete | | | 0.0 | |
| | | | | SW | Br. | | 1.0-5.0' F-M SAND, some F Gravel, little Silt. | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-31 5-10 Run#1 | | | 42" | SP | Br./Bl. | [Orange Shaded] | 5.0-7.0' F-M SAND, some F-M Gravel | 10:41 | 12/2/2021 | 0.0 | Collected Soil Sample TT-SB-31- 6.0-8.0 @ 10:50 |
| | | | | SM | Br. | | 7.0-8.0' F SAND, little F Gravel and Silt. | | | 0.0 | |
| | 10.0 | | | SP | Br. | | 8.0-10.0' F-M SAND, some F-M Gravel, Wet at 8.0'bgs | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed 1" Temp well to 15'bgs (10' of 0.020 slot Screen and 5' of Riser) | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |
| | 45.0 | | | | | | | | | | |

Notes: Collected GW sample TT-SB-31GW on 12/06/2021 @ 08:45
Patched on 12/07/2021

BORING NUMBER: TT-SB-32

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/2/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-32 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|--------------|---|-------|-----------|---------------------|---|
| TT-SB-32 0-5 | | | NA | ASPHALT | Bl. | [Green Box] | 0.0-0.33' Asphalt | 11:26 | 12/2/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | [Green Box] | | | 0.33-0.83' Concrete | |
| | | | | FILL | BL. | [Blue Box] | 0.83-2.0' F-M SAND and F-M Gravel, some Brick and Concrete. | | | 0.0 | |
| | 5.0 | | | SW | Br. | [Yellow Box] | 2.0-5.0' F SAND, some Silt, little F Gravel. | | | 0.0 | |
| TT-SB-32 5-10 Run#1 | | | 23" | SW | Br. | [Yellow Box] | 5.0-7.0' F SAND, little Silt and F Gravel. | 11:35 | 12/2/2021 | 0.0 | Collected Soil Sample TT-SB-32- 7.0-9.0 @ 11:47 |
| | | | | SM | Br. | | 7.0-8.0' F SAND, and SILT, little Clay, moist. | | | 0.0 | |
| | | | | SP | Br. | | 8.0-10.0' F-M SAND, some F Gravel, little Silt. Wet at 9.0'bgs. | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-32SV on 12/08/2021 @ 14:53
Patched on 12/09/2021

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/3/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/3/2021 |
| Boring #: | TT-SB-34 | Groundwater Depth (ft): | 6.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|--|------|-----------|-----------|---|
| TT-SB-34 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1' 11" Asphalt | 8:00 | 12/3/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 1-3.0' 24" Concrete | | | 0.0 | |
| | 5.0 | | | SM | Br. | | 3.0-8.0' F SAND, little Gravel and F Gravel. Moist @ 6.0'bgs | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| TT-SB-34 5-10 Run#1 | | | 24" | SW | Dk. Br. | | 8.0-10.0' F-M SAND, some F Gravel. Wet. | 8:05 | 12/3/2021 | 0.0 | Collected Soil Sample TT-SB-34- 4.0-6.0 @ 08:15 |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | 0.0 | | | | | | | |
| | | | | 0.0 | | | | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Patched on 12/03/2021

BORING NUMBER: TT-SB-35

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/3/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/3/2021 |
| Boring #: | TT-SB-35 | Groundwater Depth (ft): | 5.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-----------|---|------|-----------|-----------|---|
| TT-SB-35 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1.25' 11" Asphalt, 4" Subbase. | 9:25 | 12/3/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 1.25-2.1' Concrete | | | 0.0 | |
| | | | | FILL | Br. | | 2.1-7.0' F SAND, some F-M Gravel, Brick and Concrete little Silt, Wood and Metal. Wet at 5.0'bgs. | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-35 5-10 Run#1 | | | 34" | SW | Dk. Br. | | 7.0-10.0' F-M SAND, some F Gravel. Wet. | 9:35 | 12/3/2021 | 0.0 | Collected Soil Sample TT-SB-35- 3.0-5.0 @ 09:47 |
| | | | | | | | | | | 0.0 | |
| | | | | 0.0 | | | | | | | |
| | 10.0 | | | 0.0 | | | | | | | |
| | | | | | | | End of Boring at 10'bgs. | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 15.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 20.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Patched on 12/03/2021

BORING NUMBER: TT-SB-36

Field Boring Log Sheet



Project: SBMT - Equinor
 Project #: 194-1247-0003
 Boring #: TT-SB-36
 Total Depth (ft): 10'bgs.
 Geologist: A.Valli
 Driller: Cascade/ADT
 Drilling/Sampling Method: GeoProbe 7728

Date Started: 12/3/2021
 Date Completed: 12/9/2021
 Groundwater Depth (ft): 8.0'bgs.
 Ground Elevation (ft): NA
 X Coordinate:
 Y Coordinate:
 GPS Datum: NAD83

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------------|--|-------|-----------|-----------|--|
| TT-SB-36 0-5 | | | NA | ASPHALT | Bl. | [Green/Gravel] | 0.0-0.33' Asphalt | 10:54 | 12/3/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | CONCRETE | Gr. | | 0.33-2.33' Concrete | | | 0.0 | |
| | | | | SM | Br. | | 2.33-5.0' F SAND, little Silt, tr. F Gravel. | | | 0.0 | |
| | 5.0 | | | | | | 0.0 | | | | |
| TT-SB-36 5-10 Run#1 | | | 33" | SM | Br. | [Yellow/Gravel] | 5.0-10.0' F SAND, little Silt, tr. F Gravel. Wet at 8.0'bgs. | 11:00 | 12/3/2021 | 0.0 | Collected Soil Sample TT-SB-36- 6.0-8.0 @ 1107 |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-36SV on 12/08/2021 @ 16:56
 Patched on 12/09/2021

BORING NUMBER: TT-SB-37

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/3/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-37 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|-----------|---|-------|-----------|-----------|---|
| TT-SB-37 0-5 | | | NA | CONCRETE | Gr. | | 0.0-0.5' Concrete | 12:03 | 12/3/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 0.5-5.0' F SAND, some F-M Gravel, little Silt and Brick. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-37 5-10 Run#1 | | | 33" | FILL | Gr. | | 5.0-5.5' 4" Concrete | 12:07 | 12/3/2021 | 0.0 | Collected Soil Sample TT-SB-37- 7.0-9.0 @ 12:18 |
| | | | | SM | Br. | | 5.5-7.5' F SAND, little F Gravel and Silt. | | | 0.0 | |
| | | | | FILL | Br. | | 7.5-10.0' F SAND, some F Gravel, little Silt and Brick. Wet at 9.0'bgs. | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-37SV on 12/08/2021 @ 15:56
Patched on 12/09/2021

BORING NUMBER: TT-SB-38

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/6/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/6/2021 |
| Boring #: | TT-SB-38 | Groundwater Depth (ft): | 9.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|-------|--------------------------|--|------|-----------|-----------|---|
| TT-SB-38 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1.75' 11" Asphalt, 4" Subbase, 4" Asphalt, 2" Subbase | 8:22 | 12/6/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 1.75-6.0' F SAND, some F-M Gravel, Brick and Concrete little Silt. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-38 5-10 Run#1 | | | 32" | FILL | Bl. | | 6.0-7.0' ASH | 8:42 | 12/6/2021 | 0.0 | Collected Soil Sample TT-SB-38- 7.5-9.5 @ 08:42 |
| | | | | SW | Bl. | | 7.0-8.0' F SAND, some F Gravel, little Silt. | | | 0.0 | |
| | | | | FILL | Rd. | | 8.0-9.0' BRICK | | | 0.0 | |
| | | | | FILL | Bl. | | 9.0-10.0' F SAND, little F Brick and Silt Wet at 9.5'bgs. | | | 0.0 | |
| | 10.0 | | | | | | | | | | |
| | 15.0 | | | | | End of Boring at 10'bgs. | | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Patched on 12/06/2021

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/6/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/9/2021 |
| Boring #: | TT-SB-39 | Groundwater Depth (ft): | 8.5'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|-------------|--|-------|-----------|-----------|---|
| TT-SB-39 0-5 | | | NA | ASPHALT | Bl. | [Patterned] | 0.0-1.2' 10" Asphalt, 4" Subbase | 9:15 | 12/6/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | FILL | Br. | | 1.2-5.0' F SAND, some F Gravel, Brick, and Concrete, little Silt and Wood. | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 5.0 | | | | | | 0.0 | | | | |
| TT-SB-39 5-10 Run#1 | | | 42" | FILL | Br./Bl. | [Patterned] | 5.0-10.0' F SAND, some F Gravel and Brick, little Silt, Concrete and Wood. | 10:02 | 12/6/2021 | 0.0 | Collected Soil Sample TT-SB-39- 6.5-8.5 @ 10:24 with MS/MSD |
| | | | | | | | | | | 0.0 | |
| | | | | | | | | | | 0.0 | |
| | 10.0 | | | | | | 0.0 | | | | |
| | 15.0 | | | | | | End of Boring at 10'bgs. Installed Soil Vapor point | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Collected SV sample TT-SB-39SV on 12/08/2021 @ 15:52
 Patched on 12/09/2021

BORING NUMBER: TT-SB-40

Field Boring Log Sheet



| | | | |
|---------------------------|----------------|-------------------------|-----------|
| Project: | SBMT - Equinor | Date Started: | 12/6/2021 |
| Project #: | 194-1247-0003 | Date Completed: | 12/6/2021 |
| Boring #: | TT-SB-40 | Groundwater Depth (ft): | 9.0'bgs. |
| Total Depth (ft): | 10'bgs. | Ground Elevation (ft): | NA |
| Geologist: | A.Valli | X Coordinate: | |
| Driller: | Cascade/ADT | Y Coordinate: | |
| Drilling/Sampling Method: | GeoProbe 7728 | GPS Datum: | NAD83 |

| Sample ID | Depth (ft) | Blow Count per/6" | Recovery (ft) | USCS Soil Classification or Material | Color | Lithology | Description | Time | Date | PID (ppm) | Comments |
|---------------------------|------------|-------------------|---------------|--------------------------------------|---------|--------------------------|---|-------|-----------|-----------|---|
| TT-SB-40 0-5 | | | NA | ASPHALT | Bl. | | 0.0-1.2' 8" Asphalt, 6" Subbase | 11:33 | 12/6/2021 | 0.0 | Cleared to 5' using hand tools and air knife. |
| | | | | SP | Br. | | 1.2-4.0' F SAND, some F-M Gravel, little Silt. | | | 0.0 | |
| | | | | FILL | Rd./Gr. | | 4.0-6.0' Brick and Concrete | | | 0.0 | |
| | 5.0 | | | | | | | | | 0.0 | |
| TT-SB-40 5-10 Run#1 | | | 40" | SP | Br. | | 6.0-8.0' F-M SAND, some F-M Gravel, little Silt. | 11:39 | 12/6/2021 | 0.0 | Collected Soil Sample TT-SB-40- 6.0-8.0 @ 11:53 |
| | | | | FILL | Rd./Gr. | | 8.0-9.0' Brick | | | 0.0 | |
| | | | | SP | Bl. | | 8.0-10.0' F SAND, some F-M Gravel, little Silt, Moist at 9.0'bgs. | | | 0.0 | |
| | 10.0 | | | | | | | | | 0.0 | |
| | 15.0 | | | | | End of Boring at 10'bgs. | | | | | |
| | 20.0 | | | | | | | | | | |
| | 25.0 | | | | | | | | | | |
| | 30.0 | | | | | | | | | | |
| | 35.0 | | | | | | | | | | |
| | 40.0 | | | | | | | | | | |

Notes: Patched on 12/06/2021

APPENDIX B - Low Flow Data Sheets



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-02

Date: 12/7/21

Well Depth (from T.I.C.) = 13.49 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = _____ ft.

Pump Depth (ft) = 11'

Pump Start Time: 1454

Pump Type: Peristaltic

Sample I.D.: TT-SB-02 Gw

TetraTech Sampler: C. Beers

Sample Time: _____

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 1457 | 14.15 | 6.97 | 1.82 | Overrange | 1.02 | 52 | — | 8.81 | Brown |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|-------|
| 1530 | 15.21 | 6.98 | 1.90 | 81 | 0.41 | -63 | — | | clear |

Total Volume Removed: _____



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-31

Date: 12/6/21

Well Depth (from T.I.C.) = 10.68 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 5.79 ft.

Pump Depth (ft) = 8'

Pump Start Time: 0825

Pump Type: Peristaltic

Sample I.D.: TT-SB-31GW

TetraTech Sampler: C.Beers

Sample Time: 0845

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 0827 | 12.67 | 7.10 | 0.871 | 987 | 3.29 | 69 | 150 | 5.79 | Doody |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|-------|
| 0845 | 13.36 | 7.31 | 1.22 | 46 | 4.54 | -10 | 150 | 7.59 | Clear |

Total Volume Removed: 0.5 gal



Low-Flow Data Sheet

Project Name: SBM

Project No.: 194-1247-0003

Well I.D.: TT-SB-20

Date: 12/6/21

Well Depth (from T.I.C.) = 13.95 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 6.57 ft.

Pump Depth (ft) = 11'

Pump Start Time: 1240

Pump Type: Peristaltic

Sample I.D.: TT-SB-20BW

TetraTech Sampler: C. Hurs

Sample Time: 1326

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 1245 | 18.40 | 7.05 | 0.819 | Overrange | 1.17 | 104 | 150 | 6.57 | Brown |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|-------|
| 1315 | 18.91 | 6.99 | 0.782 | 97 | 5.67 | -51 | 150 | | Clear |

Total Volume Removed: _____



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-30

Date: 12/6/21

Well Depth (from T.I.C.) = 14.04 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 7.65 ft.

Pump Depth (ft) = 12

Pump Start Time: 0957

Pump Type: Peristaltic

Sample I.D.: TT-SB-30GW

TetraTech Sampler: C. Beer

Sample Time: 1037

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|--|-------------|----------|--------------------|--------------------|-------|
| 1000 | 17.64 | 7.09 | 1.90 | 26 ^{cn} 2.5614V | 0.52 | 21 | 125 | 7.65 | Brown |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|--------------------------------|------------|---------|---------|--------|-------------|------|----------|-------|------------------------------------|
| 1036 17.14 CB | 17.14 | 6.76 | 0.002 | 96 | 9.38 | -66 | 150 | 7.81 | Clear Some Cloudy |

Total Volume Removed: 1.5 gal



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-12

Date: 12/7/21

Well Depth (from T.I.C.) = 14.27 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 5.93 ft.

Pump Depth (ft) = 12'

Pump Start Time: 1047

Pump Type: Peristaltic

Sample I.D.: TT-SB-12GW

TetraTech Sampler: C. Burns

Sample Time: 1105

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------------|
| 1050 | 13.80 | 7.52 | 19.1 | 1.522 | 0.77 | -297 | — | 5.93 | Cloudy/gray |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Water | Color |
|-------|------------|---------|-----------------|------------------|-------------|----------|--------------------|-------|-------|
| 1103 | 12.51 | 7.31 | 5.81 | 23.2 | 1.31 | -214 | — | 5.97 | Clear |

* Sheen observed in purge water bucket from TT-SB-12GW

Total Volume Removed: _____



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-23

Date: 12/7/21

Well Depth (from T.I.C.) = 13.29 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 7.16 ft.

Pump Depth (ft) = 11'

Pump Start Time: 0738

Pump Type: Peristaltic

Sample I.D.: TT-SB-236W

TetraTech Sampler: C. (u.s)

Sample Time: 0832

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 0741 | 11.21 | 6.83 | 1.79 | Overrange | 2.14 | -50 | — | 7.16 | Brown |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|-------|
| 0829 | 10.20 | 6.65 | 3.61 | 3,518 | 7.35 | -95 | — | | Brown |

Total Volume Removed: 3.5 gal

Handwritten notes and signatures at the bottom of the page.



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-22

Date: 12/6/21

Well Depth (from T.I.C.) = 10.83 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 5.81 ft.

Pump Depth (ft) = 8'

Pump Start Time: 1403

Pump Type: Peristaltic

Sample I.D.: TT-SB-226W

TetraTech Sampler: C. Burns

Sample Time: 1520

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------------------------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 1545 1405 | 15.43 | 9.96 | 0.204 | Overrange | 10.36 | 21 | 150 | 5.81 | Brown |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|---------|
| 1457 | 15.45 | 9.61 | 0.198 | 278 | 10.74 | -2 | 100ML | 6.62 | Lt. TAN |

Total Volume Removed: _____



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-27

Date: 12/6/21

Well Depth (from T.I.C.) = 12.97 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 6.89 ft.

Pump Depth (ft) = 10'

Pump Start Time: 1137

Pump Type: Peristaltic

Sample I.D.: TT-SB-276W

TetraTech Sampler: C. Beers

Sample Time: 1201

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|--|-------------|----------|--------------------|-----------------------------------|-------------|
| 1139 | 17.92 | 8.45 | 1.95 | 0.36 LO Overrange 975-1145 | 0.36 | 67 | 150 | 6.89 Brown Silty | Brown Silty |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|--------------------------|-------|
| 1159 | 18.64 | 7.59 | 2.50 | 41 | 6.94 | -86 | 150 | Clear 6.97 | Clear |

* Sheen observed in purge water bucket ~5 minutes after pump start time.

Total Volume Removed: 1.5 gal



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: TT-SB-13f

Date: 12/7/21

Well Depth (from T.I.C.) = 14.17 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 8.31 ft.

Pump Depth (ft) = 12'

Pump Start Time: 1258

Pump Type: Peristaltic

Sample I.D.: TT-SB-13GW

TetraTech Sampler: C-Flow

Sample Time: 1320

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 1302 | 16.61 | 7.09 | 1.42 | over range | 0.58 | -35 | — | 8.31 | Black |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|-------|
| 1318 | 15.21 | 7.19 | 1.21 | 41 | 1.23 | -11 | — | 8.42 | Clear |

Total Volume Removed: _____



Low-Flow Data Sheet

Project Name: SBMV

Project No.: 194-1247-0003

Well I.D.: TT-SB-18

Date: 12/7/21

Well Depth (from T.I.C.) = 14.57 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 8.06 ft.

Pump Depth (ft) = 12'

Pump Start Time: 1158

Pump Type: Peristaltic

Sample I.D.: TT-SB-18GW

TetraTech Sampler: C. Burns

Sample Time: 1215

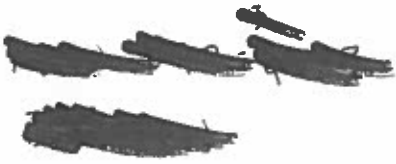
PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------|
| 1201 | 15.73 | 7.05 | 2.02 | 2011 | 1.38 | -114 | — | 8.06 | Brown |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------|------|----------|-------|-------|
| 1215 | 16.30 | 6.93 | 1.92 | 6 | 0.00 | -122 | — | 8.16 | clear |



Total Volume Removed: _____



Low-Flow Data Sheet

Project Name: SBMY

Project No.: 194-1247-0003

Well I.D.: T1-SB-06

Date: 12/7/21

Well Depth (from T.I.C.) = 12.03 ft.

Well Diameter (in) = 1"

Static Water Level (from T.I.C.) = 5.60 ft.

Pump Depth (ft) = 10'

Pump Start Time: 1354

Pump Type: Peristaltic

Sample I.D.: T1-SB-06GW

TetraTech Sampler: C. Bell

Sample Time: 1420

PID: _____

Beginning WQ Readings

| Time: | Temp. (°F) | pH (SU) | Spec. Conduct (mS/cm) | Turbidity (NTUs) | D.O. (mg/L) | ORP (mV) | Flow Rate (ml/min) | Static Water Level | Color |
|-------|------------|---------|-----------------------|------------------|-------------|----------|--------------------|--------------------|-------------|
| 1358 | 13.42 | 7.14 | 1.76 | Overrange | 3.27 | -44 | — | 5.60 | Brown Silty |

Final WQ Readings

| Time: | Temp. (°F) | pH (SU) | Conduct | (NTUs) | D.O. (mg/L) | (mV) | (ml/min) | Water | Color |
|-------|------------|---------|---------|--------|-------------------------------|------|----------|-------|-------|
| 1418 | 14.31 | 7.15 | 3.46 | 27.7 | 0.00 17.1 cs | -171 | — | | Clear |

Total Volume Removed: _____

APPENDIX C - Laboratory Analytical Data Packages

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD35644

Sampling Dates: 11/18/21 - 11/19/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: **57**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Mike Earp".

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

Tetra Tech

Job No: JD35644

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | |
|------------|----------|----------|----------|----|------|------------------|
| JD35644-1 | 11/18/21 | 12:21 AV | 11/19/21 | SO | Soil | TT-SB-01-5.5-6.0 |
| JD35644-1A | 11/18/21 | 12:21 AV | 11/19/21 | SO | Soil | TT-SB-01-5.5-6.0 |
| JD35644-2 | 11/18/21 | 13:40 AV | 11/19/21 | SO | Soil | TT-SB-02-7.0-9.0 |
| JD35644-2A | 11/18/21 | 13:40 AV | 11/19/21 | SO | Soil | TT-SB-02-7.0-9.0 |
| JD35644-3 | 11/19/21 | 09:26 AV | 11/19/21 | SO | Soil | TT-SB-03-7.0-9.0 |
| JD35644-3A | 11/19/21 | 09:26 AV | 11/19/21 | SO | Soil | TT-SB-03-7.0-9.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD35644

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/20/2021 10:47:23 A

On 11/19/2021, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35644 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: VI9765

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35673-5DUP, JD35673-6MS, JD35673-5DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Acetone, Xylene (total) are outside control limits for sample JD35673-5DUP. RPD acceptable due to low DUP and sample concentrations.
- JD35644-3 for Bromoform: Associated CCV outside of control limits high, sample was ND.
- JD35644-1 for Bromoform: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for Bromoform: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88699

- The data for EPA 537M BY ID meets quality control requirements.
- JD35644-3A: Analysis performed at SGS Orlando, FL.
- JD35644-1A: Analysis performed at SGS Orlando, FL.
- JD35644-2A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36783

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35604-1MS, JD35604-1MSD were used as the QC samples indicated.
- JD35644-2 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35644-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD35644-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for Atrazine: Associated CCV outside of control limits high, sample was ND. Associated CCV outside of control limits high, sample was ND.
- JD35644-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35644-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35644-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35644-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35644-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36783A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35644-1MS, JD35644-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36786

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35604-1MS, JD35604-1MSD, OP36786-MSMSD were used as the QC samples indicated.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36787

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35604-2MS, JD35604-2MSD, OP36787-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD35644-2 for Aroclor 1016: Associated CCV outside of control limits high, sample was ND.
- OP36787-BS1 for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD35644-3 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD35644-2 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD35644-3 for Aroclor 1016: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36792

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35645-1MS, JD35645-1MSD were used as the QC samples indicated.
- JD35644-1 for 2,4-DCAA: Outside control limits due to matrix interference.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30071

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD34540-2RMSD, JD34540-2RPS, JD34540-2RSDL, JD34540-2RMS, JD34540-2RMSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Iron, Magnesium, Potassium, Sodium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Lead, Selenium are outside control limits for sample MP30071-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30023

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35650-1MS, JD35650-1MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24183

- Sample(s) JD35645-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37244

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35531-11DUP, JD35531-11MS were used as the QC samples for Cyanide.
- The following samples were run outside of holding time for method SW846 9012B/LACHAT: JD35644-1, JD35644-2, JD35644-3 Sample prepped within holding time, but run out of holding time.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD35644

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/17/2021 6:32:40

On 11/19/2021, 3 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35644 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88699

Sample(s) JD35626-1MS, JD35626-1MSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD35644
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/18/21 thru 11/19/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD35644-1 | TT-SB-01-5.5-6.0 | | | | | |
| Acenaphthene | | 14.8 J | 36 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 28.5 J | 36 | 18 | ug/kg | SW846 8270E |
| Anthracene | | 45.4 | 36 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 127 | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 121 | 36 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 172 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 88.9 | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 59.0 | 36 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 69.4 J | 73 | 5.0 | ug/kg | SW846 8270E |
| Carbazole | | 20.4 J | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | | 157 | 36 | 11 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 24.3 J | 36 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | | 25.0 J | 73 | 15 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 139 | 73 | 8.5 | ug/kg | SW846 8270E |
| Fluoranthene | | 216 | 36 | 16 | ug/kg | SW846 8270E |
| Fluorene | | 21.3 J | 36 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 119 | 36 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 298 | 36 | 8.2 | ug/kg | SW846 8270E |
| Naphthalene | | 160 | 36 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | | 181 | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 224 | 36 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 3620 J | | | ug/kg | |
| 4,4'-DDE | | 1.5 | 0.67 | 0.59 | ug/kg | SW846 8081B |
| 2,4,5-T | | 3.6 | 3.5 | 1.8 | ug/kg | SW846 8151A |
| Aluminum | | 6820 | 58 | | mg/kg | SW846 6010D |
| Arsenic | | 10.3 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 114 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.62 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | | 4240 | 580 | | mg/kg | SW846 6010D |
| Chromium | | 16.9 | 1.2 | | mg/kg | SW846 6010D |
| Cobalt | | 7.7 | 5.8 | | mg/kg | SW846 6010D |
| Copper | | 69.3 | 2.9 | | mg/kg | SW846 6010D |
| Iron | | 21900 | 58 | | mg/kg | SW846 6010D |
| Lead | | 342 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | | 2270 | 580 | | mg/kg | SW846 6010D |
| Manganese | | 284 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.082 | 0.037 | | mg/kg | SW846 7471B |
| Nickel | | 27.3 | 4.6 | | mg/kg | SW846 6010D |
| Silver | | 0.95 | 0.58 | | mg/kg | SW846 6010D |
| Vanadium | | 22.8 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | | 178 | 5.8 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35644
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/18/21 thru 11/19/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD35644-1A TT-SB-01-5.5-6.0

No hits reported in this sample.

JD35644-2 TT-SB-02-7.0-9.0

| | | | | | |
|----------------------------|--------|-------|-----|-------|-------------|
| Acenaphthene | 31.0 J | 37 | 13 | ug/kg | SW846 8270E |
| Anthracene | 88.1 | 37 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 230 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 192 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 250 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 106 | 37 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 98.3 | 37 | 17 | ug/kg | SW846 8270E |
| Carbazole | 28.5 J | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | 230 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 35.4 J | 37 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | 16.2 J | 73 | 15 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 99.5 | 73 | 8.5 | ug/kg | SW846 8270E |
| Fluoranthene | 463 | 37 | 16 | ug/kg | SW846 8270E |
| Fluorene | 39.4 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 127 | 37 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | 13.4 J | 37 | 8.3 | ug/kg | SW846 8270E |
| Naphthalene | 10.6 J | 37 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | 356 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | 446 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 610 J | | | ug/kg | |
| Aluminum | 7900 | 56 | | mg/kg | SW846 6010D |
| Arsenic | 6.2 | 2.3 | | mg/kg | SW846 6010D |
| Barium | 90.8 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.45 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | 13900 | 560 | | mg/kg | SW846 6010D |
| Chromium | 12.2 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | 5.6 | 5.6 | | mg/kg | SW846 6010D |
| Copper | 31.0 | 2.8 | | mg/kg | SW846 6010D |
| Iron | 14800 | 56 | | mg/kg | SW846 6010D |
| Lead | 270 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | 3150 | 560 | | mg/kg | SW846 6010D |
| Manganese | 270 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | 0.18 | 0.030 | | mg/kg | SW846 7471B |
| Nickel | 14.1 | 4.5 | | mg/kg | SW846 6010D |
| Silver | 0.82 | 0.56 | | mg/kg | SW846 6010D |
| Vanadium | 20.5 | 5.6 | | mg/kg | SW846 6010D |
| Zinc | 95.2 | 5.6 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35644
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/18/21 thru 11/19/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD35644-2A TT-SB-02-7.0-9.0

No hits reported in this sample.

JD35644-3 TT-SB-03-7.0-9.0

| | | | | | |
|--------------------------|--------|-------|-----|-------|-------------|
| Benzo(a)anthracene | 14.8 J | 34 | 9.7 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 15.2 J | 34 | 15 | ug/kg | SW846 8270E |
| Chrysene | 12.3 J | 34 | 11 | ug/kg | SW846 8270E |
| Fluoranthene | 19.6 J | 34 | 15 | ug/kg | SW846 8270E |
| Phenanthrene | 15.2 J | 34 | 12 | ug/kg | SW846 8270E |
| Pyrene | 22.6 J | 34 | 11 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 1460 J | | | ug/kg | |
| Aluminum | 3240 | 50 | | mg/kg | SW846 6010D |
| Arsenic | 2.6 | 2.0 | | mg/kg | SW846 6010D |
| Beryllium | 0.24 | 0.20 | | mg/kg | SW846 6010D |
| Calcium | 2260 | 500 | | mg/kg | SW846 6010D |
| Chromium | 12.6 | 1.0 | | mg/kg | SW846 6010D |
| Copper | 9.4 | 2.5 | | mg/kg | SW846 6010D |
| Iron | 8360 | 50 | | mg/kg | SW846 6010D |
| Lead | 11.3 | 2.0 | | mg/kg | SW846 6010D |
| Magnesium | 3570 | 500 | | mg/kg | SW846 6010D |
| Manganese | 95.9 | 1.5 | | mg/kg | SW846 6010D |
| Mercury | 0.067 | 0.030 | | mg/kg | SW846 7471B |
| Nickel | 39.2 | 4.0 | | mg/kg | SW846 6010D |
| Vanadium | 12.3 | 5.0 | | mg/kg | SW846 6010D |
| Zinc | 25.7 | 5.0 | | mg/kg | SW846 6010D |

JD35644-3A TT-SB-03-7.0-9.0

No hits reported in this sample.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | I240167.D | 1 | 11/24/21 15:50 | TDN | 11/20/21 13:00 | n/a | VI9765 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.6 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 4.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.50 | 0.46 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.56 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.43 | ug/kg | |
| 75-25-2 | Bromoform ^a | ND | 5.0 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.76 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.54 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.62 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.46 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.59 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.52 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.66 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.69 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.56 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.55 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.49 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.73 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.47 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.66 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.84 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.61 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.47 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.48 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.46 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.45 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | |
| Lab Sample ID: | JD35644-1 | Date Sampled: 11/18/21 |
| Matrix: | SO - Soil | Date Received: 11/19/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.0 | 0.88 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.47 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.0 | 0.40 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.60 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 0.58 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 0.48 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 0.55 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.76 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.68 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.48 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.90 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.46 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 103% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176696.D | 1 | 11/30/21 03:49 | KLS | 11/23/21 10:30 | OP36783 | EM7595 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 14.8 | 36 | 13 | ug/kg | J |
| 208-96-8 | Acenaphthylene | 28.5 | 36 | 18 | ug/kg | J |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 45.4 | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 127 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 121 | 36 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 172 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 88.9 | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 59.0 | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 69.4 | 73 | 5.0 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 20.4 | 73 | 5.3 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 157 | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 24.3 | 36 | 16 | ug/kg | J |
| 132-64-9 | Dibenzofuran | 25.0 | 73 | 15 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 139 | 73 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | 216 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 21.3 | 36 | 17 | ug/kg | J |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 119 | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 298 | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | 160 | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 181 | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 224 | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 44% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-01-5.5-6.0 | Date Sampled: 11/18/21 |
| Lab Sample ID: JD35644-1 | Date Received: 11/19/21 |
| Matrix: SO - Soil | Percent Solids: 89.2 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105021.D | 1 | 12/10/21 22:25 | KLS | 11/23/21 10:30 | OP36783A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 56% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 61% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-01-5.5-6.0 | Date Sampled: 11/18/21 |
| Lab Sample ID: JD35644-1 | Date Received: 11/19/21 |
| Matrix: SO - Soil | Percent Solids: 89.2 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134215.D | 1 | 11/25/21 07:16 | RK | 11/24/21 10:05 | OP36792 | G3G4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 7.9 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | 3.6 | 3.5 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-------------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 659% ^a | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 79% | | 10-125% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723088.D | 1 | 11/24/21 21:00 | TC | 11/23/21 10:00 | OP36786 | G4G3662 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.8 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.67 | 0.55 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.67 | 0.54 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.67 | 0.60 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.67 | 0.64 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.67 | 0.49 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.67 | 0.54 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.67 | 0.30 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.67 | 0.46 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.67 | 0.61 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 1.5 | 0.67 | 0.59 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.67 | 0.59 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.67 | 0.52 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.67 | 0.52 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.67 | 0.38 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.67 | 0.38 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.67 | 0.42 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.67 | 0.58 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.67 | 0.47 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.53 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.67 | 0.48 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 116% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 119% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 108% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 130% | | 10-179% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | |
| Lab Sample ID: | JD35644-1 | Date Sampled: 11/18/21 |
| Matrix: | SO - Soil | Date Received: 11/19/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK6903.D | 1 | 12/06/21 05:49 | TL | 11/23/21 10:00 | OP36787 | GRK180 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.8 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 33 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 33 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 33 | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 33 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 33 | 30 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 33 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 33 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 33 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 33 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 112% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 104% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 71% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 137% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 6820 | 58 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 10.3 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 114 | 23 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.62 | 0.23 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 4240 | 580 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 16.9 | 1.2 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 7.7 | 5.8 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 69.3 | 2.9 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 21900 | 58 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 342 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 2270 | 580 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 284 | 1.7 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.082 | 0.037 | mg/kg | 1 | 11/24/21 | 11/24/21 | SB SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 27.3 | 4.6 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | 0.95 | 0.58 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 22.8 | 5.8 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 178 | 5.8 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51485

(2) Instrument QC Batch: MA51523

(3) Prep QC Batch: MP30023

(4) Prep QC Batch: MP30071

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-01-5.5-6.0 Lab Sample ID: JD35644-1 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/18/21 Date Received: 11/19/21 Percent Solids: 89.2 |
|---|--|

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 01:58 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.2 | | % | 1 | 11/22/21 17:03 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-01-5.5-6.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-1A | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 4Q23725.D | 1 | 12/16/21 07:46 | AFL | 12/08/21 07:00 | F:OP88699 | F:S4Q325 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.43 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-01-5.5-6.0 | | Date Sampled: 11/18/21 |
| Lab Sample ID: JD35644-1A | | Date Received: 11/19/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 95% | | 40-140% |
| | 13C5-PFPeA | 100% | | 50-150% |
| | 13C5-PFHxA | 101% | | 50-150% |
| | 13C4-PFHpA | 103% | | 50-150% |
| | 13C8-PFOA | 105% | | 50-150% |
| | 13C9-PFNA | 107% | | 50-150% |
| | 13C6-PFDA | 110% | | 50-150% |
| | 13C7-PFUnDA | 108% | | 40-140% |
| | 13C2-PFDoDA | 105% | | 40-140% |
| | 13C2-PFTeDA | 101% | | 30-130% |
| | 13C3-PFBS | 101% | | 50-150% |
| | 13C3-PFHxS | 98% | | 50-150% |
| | 13C8-PFOS | 105% | | 50-150% |
| | 13C8-FOSA | 104% | | 30-130% |
| | d3-MeFOSAA | 123% | | 40-140% |
| | d5-EtFOSAA | 134% | | 40-140% |
| | 13C2-6:2FTS | 103% | | 50-150% |
| | 13C2-8:2FTS | 106% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | I240168.D | 1 | 11/24/21 16:11 | TDN | 11/20/21 13:00 | n/a | VI9765 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 11 | 4.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.56 | 0.51 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.6 | 0.63 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.2 | 0.48 | ug/kg | |
| 75-25-2 | Bromoform ^a | ND | 5.6 | 1.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.6 | 0.85 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.7 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.2 | 0.60 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.2 | 0.69 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.2 | 0.51 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.6 | 0.66 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.2 | 0.58 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.6 | 2.2 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.2 | 0.73 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.2 | 0.78 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.2 | 0.63 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.1 | 0.61 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.1 | 0.55 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.55 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.6 | 0.81 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.55 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.53 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.1 | 0.73 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.94 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.68 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.2 | 0.53 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.2 | 0.53 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.2 | 0.51 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.51 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.6 | 3.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.6 | 2.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.2 | 1.6 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.6 | 1.6 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.2 | 0.98 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.52 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.6 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.6 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.2 | 0.45 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.2 | 0.67 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.2 | 0.65 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.1 | 0.59 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.6 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.6 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.2 | 0.54 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.2 | 0.62 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.85 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.6 | 0.76 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.2 | 0.54 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 1.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.51 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.51 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 90% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176929.D | 1 | 12/11/21 00:44 | KLS | 11/23/21 10:30 | OP36783 | EM7605 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 31.0 | 37 | 13 | ug/kg | J |
| 208-96-8 | Acenaphthylene | ND | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 180 | 7.9 | ug/kg | |
| 120-12-7 | Anthracene | 88.1 | 37 | 22 | ug/kg | |
| 1912-24-9 | Atrazine ^b | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 230 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 192 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 250 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 106 | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 98.3 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 73 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 28.5 | 73 | 5.3 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 55% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 88% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 64% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|--------------------------------------|-------|------------|-------|---|
| | System artifact/aldol-condensation | 3.26 | 230 | ug/kg | J |
| | Internal standard added for SIM test | 4.63 | 160 | ug/kg | J |
| | Internal standard added for SIM test | 6.51 | 180 | ug/kg | J |
| | Octadecenamide | 14.90 | 610 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 610 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-02-7.0-9.0 | Date Sampled: 11/18/21 |
| Lab Sample ID: JD35644-2 | Date Received: 11/19/21 |
| Matrix: SO - Soil | Percent Solids: 89.5 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105022.D | 1 | 12/10/21 22:45 | KLS | 11/23/21 10:30 | OP36783A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 58% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 59% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 60% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-02-7.0-9.0 | |
| Lab Sample ID: JD35644-2 | Date Sampled: 11/18/21 |
| Matrix: SO - Soil | Date Received: 11/19/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 89.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134216.D | 1 | 11/25/21 07:43 | RK | 11/24/21 10:05 | OP36792 | G3G4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.3 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.7 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.7 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 80% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 69% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723089.D | 1 | 11/24/21 21:15 | TC | 11/23/21 10:00 | OP36786 | G4G3662 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.0 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.74 | 0.61 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.74 | 0.61 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.74 | 0.67 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.74 | 0.72 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.74 | 0.55 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.74 | 0.60 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.74 | 0.34 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.74 | 0.51 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.74 | 0.68 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.74 | 0.65 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.74 | 0.66 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.74 | 0.58 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.74 | 0.58 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.74 | 0.42 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.74 | 0.43 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.74 | 0.46 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.74 | 0.64 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.74 | 0.52 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.59 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.74 | 0.54 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 88% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 117% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 76% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 102% | | 10-179% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-02-7.0-9.0 | |
| Lab Sample ID: JD35644-2 | Date Sampled: 11/18/21 |
| Matrix: SO - Soil | Date Received: 11/19/21 |
| Method: SW846 8082A SW846 3546 | Percent Solids: 89.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK6645.D | 1 | 11/25/21 17:40 | CP | 11/23/21 10:00 | OP36787 | GRK173 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.0 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 ^a | ND | 37 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 37 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 37 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 37 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 37 | 33 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 37 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 ^a | ND | 37 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 37 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 37 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 131% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 118% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 93% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 119% | | 10-172% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 7900 | 56 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 6.2 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 90.8 | 23 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.45 | 0.23 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.56 | 0.56 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 13900 | 560 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 12.2 | 1.1 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 5.6 | 5.6 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 31.0 | 2.8 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 14800 | 56 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 270 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 3150 | 560 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 270 | 1.7 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.18 | 0.030 | mg/kg | 1 | 11/24/21 | 11/24/21 | SB SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 14.1 | 4.5 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | 0.82 | 0.56 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 20.5 | 5.6 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 95.2 | 5.6 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51485

(2) Instrument QC Batch: MA51523

(3) Prep QC Batch: MP30023

(4) Prep QC Batch: MP30071

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-02-7.0-9.0 Lab Sample ID: JD35644-2 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/18/21 Date Received: 11/19/21 Percent Solids: 89.5 |
|---|--|

4.3

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.32 | 0.32 | mg/kg | 1 | 12/09/21 02:02 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.5 | | % | 1 | 11/22/21 17:03 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02-7.0-9.0 | Date Sampled: | 11/18/21 |
| Lab Sample ID: | JD35644-2A | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.5 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 4Q23726.D | 1 | 12/16/21 08:03 | AFL | 12/08/21 07:00 | F:OP88699 | F:S4Q325 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.06 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.41 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.54 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.54 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.54 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-02-7.0-9.0 | | Date Sampled: 11/18/21 |
| Lab Sample ID: JD35644-2A | | Date Received: 11/19/21 |
| Matrix: SO - Soil | | Percent Solids: 89.5 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 88% | | 40-140% |
| | 13C5-PFPeA | 93% | | 50-150% |
| | 13C5-PFHxA | 93% | | 50-150% |
| | 13C4-PFHpA | 95% | | 50-150% |
| | 13C8-PFOA | 97% | | 50-150% |
| | 13C9-PFNA | 97% | | 50-150% |
| | 13C6-PFDA | 100% | | 50-150% |
| | 13C7-PFUnDA | 98% | | 40-140% |
| | 13C2-PFDoDA | 98% | | 40-140% |
| | 13C2-PFTeDA | 98% | | 30-130% |
| | 13C3-PFBS | 93% | | 50-150% |
| | 13C3-PFHxS | 94% | | 50-150% |
| | 13C8-PFOS | 99% | | 50-150% |
| | 13C8-FOSA | 94% | | 30-130% |
| | d3-MeFOSAA | 115% | | 40-140% |
| | d5-EtFOSAA | 125% | | 40-140% |
| | 13C2-6:2FTS | 93% | | 50-150% |
| | 13C2-8:2FTS | 96% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-03-7.0-9.0 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35644-3 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.0 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | I240169.D | 1 | 11/24/21 16:31 | TDN | 11/20/21 13:00 | n/a | VI9765 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.6 | 4.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.48 | 0.44 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.8 | 0.54 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.41 | ug/kg | |
| 75-25-2 | Bromoform ^a | ND | 4.8 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.8 | 0.73 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.6 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.51 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.59 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.44 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.8 | 0.57 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.50 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.8 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.63 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.66 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.54 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.96 | 0.40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.96 | 0.52 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.96 | 0.47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.96 | 0.47 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.8 | 0.70 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.96 | 0.47 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.96 | 0.45 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.96 | 0.63 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.96 | 0.80 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.96 | 0.58 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.45 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.45 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.96 | 0.43 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.8 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.8 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-03-7.0-9.0 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35644-3 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.0 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.8 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.84 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.96 | 0.45 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.8 | 2.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.8 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.57 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.56 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.96 | 0.50 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.8 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.8 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.46 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.53 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.96 | 0.73 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.8 | 0.65 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.46 | ug/kg | |
| | m,p-Xylene | ND | 0.96 | 0.86 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.96 | 0.44 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.96 | 0.44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-03-7.0-9.0 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35644-3 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.0 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176655.D | 1 | 11/25/21 01:07 | CS | 11/23/21 10:30 | OP36783 | EM7594 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 69 | 17 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 170 | 21 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 170 | 29 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 170 | 61 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 170 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 170 | 37 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 69 | 22 | ug/kg | |
| | 3&4-Methylphenol | ND | 69 | 28 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 170 | 23 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 340 | 92 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 32 | ug/kg | |
| 108-95-2 | Phenol | ND | 69 | 18 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 170 | 23 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 170 | 26 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 170 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 34 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 34 | 17 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 170 | 7.4 | ug/kg | |
| 120-12-7 | Anthracene | ND | 34 | 21 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 69 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 14.8 | 34 | 9.7 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | ND | 34 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 15.2 | 34 | 15 | ug/kg | J |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 34 | 17 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 34 | 16 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 69 | 13 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 69 | 8.4 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 69 | 4.7 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 170 | 8.5 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 69 | 8.2 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 170 | 12 | ug/kg | |
| 86-74-8 | Carbazole | ND | 69 | 5.0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-03-7.0-9.0 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35644-3 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.0 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 69 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 12.3 | 34 | 11 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 69 | 7.4 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 69 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 69 | 12 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 69 | 11 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 34 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 34 | 17 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 69 | 29 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 34 | 23 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 34 | 15 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 69 | 14 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 69 | 5.6 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 69 | 8.6 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 69 | 7.3 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 69 | 6.1 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 69 | 8.0 | ug/kg | |
| 206-44-0 | Fluoranthene | 19.6 | 34 | 15 | ug/kg | J |
| 86-73-7 | Fluorene | ND | 34 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 69 | 8.7 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 34 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 340 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 170 | 17 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 34 | 16 | ug/kg | |
| 78-59-1 | Isophorone | ND | 69 | 7.4 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 34 | 7.8 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 170 | 8.1 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 170 | 8.6 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 170 | 8.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 34 | 9.7 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 69 | 13 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 69 | 9.9 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 170 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 15.2 | 34 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 22.6 | 34 | 11 | ug/kg | J |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 170 | 8.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 54% | | 7-101% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-03-7.0-9.0 Lab Sample ID: JD35644-3 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/19/21 Percent Solids: 95.0 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 54% | | 12-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 96% | | 10-127% |
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 15-114% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 22-104% |
| 1718-51-0 | Terphenyl-d14 | 74% | | 23-121% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|-------------|--------------|----------|
| | System artifact | 3.26 | 140 | ug/kg | J |
| | System artifact/aldol-condensation | 3.32 | 380 | ug/kg | J |
| | Unknown | 15.00 | 290 | ug/kg | J |
| | Alkane | 15.26 | 220 | ug/kg | J |
| | Alkane | 15.93 | 270 | ug/kg | J |
| | Alkane | 16.58 | 360 | ug/kg | J |
| | Alkane | 17.20 | 320 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 1460 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-03-7.0-9.0 | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35644-3 | Date Received: 11/19/21 |
| Matrix: SO - Soil | Percent Solids: 95.0 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105023.D | 1 | 12/10/21 23:06 | KLS | 11/23/21 10:30 | OP36783A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.4 | 1.7 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 65% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-03-7.0-9.0 | |
| Lab Sample ID: JD35644-3 | Date Sampled: 11/19/21 |
| Matrix: SO - Soil | Date Received: 11/19/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 95.0 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134217.D | 1 | 11/25/21 08:10 | RK | 11/24/21 10:05 | OP36792 | G3G4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.0 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 7.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 64% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 43% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-03-7.0-9.0 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35644-3 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.0 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723090.D | 1 | 11/24/21 21:30 | TC | 11/23/21 10:00 | OP36786 | G4G3662 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.67 | 0.56 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.67 | 0.55 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.67 | 0.61 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.67 | 0.65 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.67 | 0.50 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.67 | 0.54 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.67 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.67 | 0.46 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.67 | 0.62 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.67 | 0.59 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.67 | 0.60 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.67 | 0.52 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.67 | 0.53 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.67 | 0.38 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.67 | 0.39 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.67 | 0.42 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.67 | 0.58 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.67 | 0.47 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.54 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.67 | 0.49 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 88% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 96% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 80% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 85% | | 10-179% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|-------------------------|
| Client Sample ID: TT-SB-03-7.0-9.0 | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35644-3 | Date Received: 11/19/21 |
| Matrix: SO - Soil | Percent Solids: 95.0 |
| Method: SW846 8082A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK6650.D | 1 | 11/25/21 19:02 | CP | 11/23/21 10:00 | OP36787 | GRK173 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 ^a | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 30 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 ^a | ND | 34 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 131% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 119% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 118% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 107% | | 10-172% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

Client Sample ID: TT-SB-03-7.0-9.0

Lab Sample ID: JD35644-3

Matrix: SO - Soil

Date Sampled: 11/19/21

Date Received: 11/19/21

Percent Solids: 95.0

Project: 2nd Avenue and 33-39th Street, Brooklyn, NY

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 3240 | 50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.0 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 2.6 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | < 20 | 20 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.24 | 0.20 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.50 | 0.50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 2260 | 500 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 12.6 | 1.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | < 5.0 | 5.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 9.4 | 2.5 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 8360 | 50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 11.3 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 3570 | 500 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 95.9 | 1.5 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.067 | 0.030 | mg/kg | 1 | 11/24/21 | 11/24/21 | SB SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 39.2 | 4.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1000 | 1000 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.0 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | < 0.50 | 0.50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1000 | 1000 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.0 | 1.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 12.3 | 5.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 25.7 | 5.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51485

(2) Instrument QC Batch: MA51523

(3) Prep QC Batch: MP30023

(4) Prep QC Batch: MP30071

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-03-7.0-9.0 Lab Sample ID: JD35644-3 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/19/21 Percent Solids: 95.0 |
|---|--|

4.5

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 02:04 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 95 | | % | 1 | 11/22/21 17:03 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-03-7.0-9.0 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35644-3A | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.0 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 4Q23727.D | 1 | 12/16/21 08:20 | AFL | 12/08/21 07:00 | F:OP88699 | F:S4Q325 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.40 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.53 | 0.28 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.26 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.26 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-03-7.0-9.0 | | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35644-3A | | Date Received: 11/19/21 |
| Matrix: SO - Soil | | Percent Solids: 95.0 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 96% | | 40-140% |
| | 13C5-PFPeA | 98% | | 50-150% |
| | 13C5-PFHxA | 100% | | 50-150% |
| | 13C4-PFHpA | 99% | | 50-150% |
| | 13C8-PFOA | 103% | | 50-150% |
| | 13C9-PFNA | 105% | | 50-150% |
| | 13C6-PFDA | 106% | | 50-150% |
| | 13C7-PFUnDA | 105% | | 40-140% |
| | 13C2-PFDoDA | 103% | | 40-140% |
| | 13C2-PFTeDA | 103% | | 30-130% |
| | 13C3-PFBS | 98% | | 50-150% |
| | 13C3-PFHxS | 100% | | 50-150% |
| | 13C8-PFOS | 102% | | 50-150% |
| | 13C8-FOSA | 100% | | 30-130% |
| | d3-MeFOSAA | 117% | | 40-140% |
| | d5-EtFOSAA | 120% | | 40-140% |
| | 13C2-6:2FTS | 98% | | 50-150% |
| | 13C2-8:2FTS | 100% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD35644

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 11/19/2021 6:07:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

Cooler Security

- | | | | | | | | |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Cooler Temperature

- | | | | |
|------------------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

Quality Control Preservation

- | | | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

- | | | | |
|--|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Sample Integrity - Condition

- | | | | |
|----------------------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

Sample Integrity - Instructions

- | | | | | |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD35644: Chain of Custody

Page 2 of 3

5.1

Job Change Order: JD35644

Requested Date: 12/13/2021 **Received Date:** 11/19/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD35644-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD35644: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.sgs.com/ehususa

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|----------------------------------|--|---|--|----------|--|-------------|--|------------|--|--------|--|--------------------|--|----|--|------|--|-------|--|------|--|----------------------|--|------|--|-------|--|-------------|
| Client / Reporting Information | | Project Information | | | | | | | | | | Requested Analysis | | | | | | | | | | Matrix Codes | | | | | | |
| Company Name: | | Project Name: | | | | | | | | | | Requested Analysis | | | | | | | | | | DW - Drinking Water | | | | | | |
| Street Address: | | 2nd Avenue and 33-39th Street, Brooklyn, NY | | | | | | | | | | | | | | | | | | | | GW - Ground Water | | | | | | |
| City State Zip: | | Billing Information (if different from Report to) | | | | | | | | | | | | | | | | | | | | WW - Water | | | | | | |
| Project Contact: | | Project #: | | | | | | | | | | | | | | | | | | | | SW - Surface Water | | | | | | |
| E-mail: | | Company Name: | | | | | | | | | | | | | | | | | | | | SC - Soil | | | | | | |
| Jadon Schiller@sgs.com | | Street Address: | | | | | | | | | | | | | | | | | | | | SL - Sludge | | | | | | |
| Phone #: | | Client Purchase Order #: | | | | | | | | | | | | | | | | | | | | SEB - Sediment | | | | | | |
| Sample(s) Name(s): | | City State Zip: | | | | | | | | | | | | | | | | | | | | OI - Oil | | | | | | |
| AV | | Project Manager: | | | | | | | | | | | | | | | | | | | | LIQ - Other Liquid | | | | | | |
| Phone: | | Assistant: | | | | | | | | | | | | | | | | | | | | AIR - Air | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | SOL - Other Solid | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | WP - Wipe | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | FB - Field Blank | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | EB - Equipment Blank | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | RB - Rinse Blank | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | TB - Trip Blank | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | LAB USE ONLY | | | | | | |
| Turnaround Time (Business days): | | Collection | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MECHDET Val # | | Date | | Time | | Sampled by | | Matrix | | # of bottles | | PC | | MUSH | | H2SO4 | | HNO3 | | DI WATER | | MISC | | BATCH | | LC10357NY21 |
| 1A | | TT-SB-01-5-5-6.0 | | 11/18/21 | | 12:21:00 PM | | AV | | SO | | | | | | | | | | | | | | | | | | X |
| 2A | | TT-SB-02-7-0-9.0 | | 11/18/21 | | 1:40:00 PM | | AV | | SO | | | | | | | | | | | | | | | | | | X |
| 3A | | TT-SB-03-7-0-9.0 | | 11/19/21 | | 9:26:00 AM | | AV | | SO | | | | | | | | | | | | | | | | | | X |
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SGS Sample Receipt Summary

Job Number: JD35644

Client: SGS NJ

Project: 2ND AVENUE

Date / Time Received: 11/23/2021 10:15:00 AM

Delivery Method: FX

Airbill #'s: 5272 0636 5812

| | | |
|--|----------------|-----------------|
| Therm ID: IR 1; | Therm CF: 0.2; | # of Coolers: 1 |
| Cooler Temps (Raw Measured) °C: Cooler 1: (4.2); | | |
| Cooler Temps (Corrected) °C: Cooler 1: (4.4); | | |

| <u>Cooler Information</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-----------------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | | |
| 5. Cooler media | <u>Ice (Bag)</u> | | |

| <u>Sample Information</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Trip Blank Information</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|--------------------------------|--------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W</u> | <u>or</u> | <u>S</u> | <u>N/A</u> |
| 3. Type Of TB Received | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Misc. Information</u> | | | |
|---|--------------|----------------------------------|--------------------------------------|
| Number of Encores: 25-Gram _____ | 5-Gram _____ | Number of 5035 Field Kits: _____ | Number of Lab Filtered Metals: _____ |
| Test Strip Lot #s: pH 0-3 _____ | 230315 _____ | pH 10-12 _____ | 219813A _____ |
| Residual Chlorine Test Strip Lot #: _____ | | | |

Comments

SM001
Rev. Date 05/24/17

Technician: PETERH

Date: 11/23/2021 10:15:00

Reviewer: _____

Date: _____

JD35644: Chain of Custody

Page 2 of 2



5.2



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Test results relate only to samples analyzed.

Dayton, NJ

12/21/21

The results of this test have been provided by SGS North America Inc.

Technical Report for

e-Hardcopy 2.0
Automated Report

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD35645

Sampling Date: 11/19/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report:

28



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.



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Sample Summary

Tetra Tech

Job No: JD35645

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

| | | | | | | |
|------------|----------|----------|----------|----|------|------------------|
| JD35645-1 | 11/19/21 | 10:41 AV | 11/19/21 | SO | Soil | TT-SB-04-7.5-9.5 |
| JD35645-1A | 11/19/21 | 10:41 AV | 11/19/21 | SO | Soil | TT-SB-04-7.5-9.5 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD35645

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/20/2021 11:10:56 A

On 11/19/2021, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35645 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: V3C7565

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35602-1MS, JD35602-2DUP were used as the QC samples indicated.
- JD35645-1 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88699

- The data for EPA 537M BY ID meets quality control requirements.
- JD35645-1A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36783

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35604-1MS, JD35604-1MSD were used as the QC samples indicated.
- JD35645-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35645-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35645-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35645-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36783A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35644-1MS, JD35644-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Monday, December 20, 2021

Page 1 of 3

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36786

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35604-1MS, JD35604-1MSD, OP36786-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36787

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35604-2MS, JD35604-2MSD, OP36787-MSMSD were used as the QC samples indicated.
- OP36787-BS1 for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD35645-1 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD35645-1 for Aroclor 1016: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36792

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35645-1MS, JD35645-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30071

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD34540-2RMSD, JD34540-2RPS, JD34540-2RSDL, JD34540-2RMS, JD34540-2RMSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Iron, Magnesium, Potassium, Sodium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Lead, Selenium are outside control limits for sample MP30071-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30023

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35650-1MS, JD35650-1MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24183

- Sample(s) JD35645-1DUP were used as the QC samples for Solids, Percent.

Monday, December 20, 2021

Page 2 of 3

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37244

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35531-11DUP, JD35531-11MS were used as the QC samples for Cyanide.
- The following samples were run outside of holding time for method SW846 9012B/LACHAT: JD35645-1 Sample prepped within holding time, but run out of holding time.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD35645

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/17/2021 6:40:52

On 11/19/2021, 1 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35645 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88699

Sample(s) JD35626-1MS, JD35626-1MSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD35645
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/19/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD35645-1 | TT-SB-04-7.5-9.5 | | | | | |
| Acetone | | 5.5 J | 9.3 | 3.8 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | | 27.6 J | 34 | 9.5 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 25.0 J | 34 | 15 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 36.7 | 34 | 15 | ug/kg | SW846 8270E |
| Chrysene | | 27.7 J | 34 | 11 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 34.5 J | 67 | 7.9 | ug/kg | SW846 8270E |
| Fluoranthene | | 47.2 | 34 | 15 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 19.0 J | 34 | 16 | ug/kg | SW846 8270E |
| Phenanthrene | | 26.1 J | 34 | 11 | ug/kg | SW846 8270E |
| Pyrene | | 51.9 | 34 | 11 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 590 J | | | ug/kg | |
| 4,4'-DDD | | 1.4 | 0.70 | 0.64 | ug/kg | SW846 8081B |
| 4,4'-DDE | | 0.90 | 0.70 | 0.61 | ug/kg | SW846 8081B |
| 4,4'-DDT | | 7.3 | 0.70 | 0.62 | ug/kg | SW846 8081B |
| Aluminum | | 4340 | 50 | | mg/kg | SW846 6010D |
| Arsenic | | 2.9 | 2.0 | | mg/kg | SW846 6010D |
| Barium | | 39.0 | 20 | | mg/kg | SW846 6010D |
| Beryllium | | 0.31 | 0.20 | | mg/kg | SW846 6010D |
| Calcium | | 2150 | 500 | | mg/kg | SW846 6010D |
| Chromium | | 15.2 | 1.0 | | mg/kg | SW846 6010D |
| Cobalt | | 5.3 | 5.0 | | mg/kg | SW846 6010D |
| Copper | | 16.8 | 2.5 | | mg/kg | SW846 6010D |
| Iron | | 16100 | 50 | | mg/kg | SW846 6010D |
| Lead | | 20.3 | 2.0 | | mg/kg | SW846 6010D |
| Magnesium | | 3940 | 500 | | mg/kg | SW846 6010D |
| Manganese | | 193 | 1.5 | | mg/kg | SW846 6010D |
| Mercury | | 0.037 | 0.031 | | mg/kg | SW846 7471B |
| Nickel | | 35.4 | 4.0 | | mg/kg | SW846 6010D |
| Silver | | 0.60 | 0.50 | | mg/kg | SW846 6010D |
| Vanadium | | 14.8 | 5.0 | | mg/kg | SW846 6010D |
| Zinc | | 37.4 | 5.0 | | mg/kg | SW846 6010D |

JD35645-1A TT-SB-04-7.5-9.5

No hits reported in this sample.



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Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35645-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3C171619.D | 1 | 11/24/21 16:32 | TDN | 11/20/21 13:00 | n/a | V3C7565 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.7 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 5.5 | 9.3 | 3.8 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.46 | 0.42 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.6 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.6 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane ^a | ND | 4.6 | 0.71 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.3 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.57 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.6 | 0.55 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.48 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.6 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.61 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.64 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.52 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.93 | 0.39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.93 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.6 | 0.67 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.93 | 0.46 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.93 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.93 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.93 | 0.78 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.93 | 0.57 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.44 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.42 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.93 | 0.42 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.6 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.6 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35645-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.6 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.81 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.93 | 0.43 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.6 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.6 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.37 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.54 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.93 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.6 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.6 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.45 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.51 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.93 | 0.71 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.6 | 0.63 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.93 | 0.83 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.93 | 0.42 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.93 | 0.42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 110% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 97% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35645-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176656.D | 1 | 11/25/21 01:35 | CS | 11/23/21 10:30 | OP36783 | EM7594 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.4 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 67 | 17 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 170 | 21 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 170 | 29 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 170 | 60 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 170 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 170 | 36 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 67 | 22 | ug/kg | |
| | 3&4-Methylphenol | ND | 67 | 28 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 170 | 22 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 340 | 90 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 130 | 32 | ug/kg | |
| 108-95-2 | Phenol | ND | 67 | 18 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 170 | 22 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 170 | 25 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 170 | 20 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 34 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 34 | 17 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 170 | 7.2 | ug/kg | |
| 120-12-7 | Anthracene | ND | 34 | 21 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 67 | 14 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 27.6 | 34 | 9.5 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | 25.0 | 34 | 15 | ug/kg | J |
| 205-99-2 | Benzo(b)fluoranthene | 36.7 | 34 | 15 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 34 | 17 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 34 | 16 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 67 | 13 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 67 | 8.2 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 67 | 4.6 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 170 | 8.3 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 67 | 8.0 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 170 | 12 | ug/kg | |
| 86-74-8 | Carbazole | ND | 67 | 4.9 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35645-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 67 | 13 | ug/kg | |
| 218-01-9 | Chrysene | 27.7 | 34 | 11 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 67 | 7.2 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 67 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 67 | 12 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 67 | 11 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 34 | 10 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 34 | 17 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 67 | 28 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 34 | 22 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 34 | 15 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 67 | 14 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 67 | 5.5 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 67 | 8.4 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 67 | 7.2 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 67 | 6.0 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 34.5 | 67 | 7.9 | ug/kg | J |
| 206-44-0 | Fluoranthene | 47.2 | 34 | 15 | ug/kg | |
| 86-73-7 | Fluorene | ND | 34 | 15 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 67 | 8.5 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 34 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 340 | 13 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 170 | 17 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 19.0 | 34 | 16 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 67 | 7.2 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 34 | 7.6 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 170 | 7.9 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 170 | 8.4 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 170 | 8.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 34 | 9.5 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 67 | 13 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 67 | 9.7 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 170 | 12 | ug/kg | |
| 85-01-8 | Phenanthrene | 26.1 | 34 | 11 | ug/kg | J |
| 129-00-0 | Pyrene | 51.9 | 34 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 170 | 8.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 55% | | 7-101% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-04-7.5-9.5 Lab Sample ID: JD35645-1 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/19/21 Percent Solids: 94.6 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 56% | | 12-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 98% | | 10-127% |
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 15-114% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 22-104% |
| 1718-51-0 | Terphenyl-d14 | 75% | | 23-121% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact | 3.26 | 190 | ug/kg | J |
| | System artifact/aldol-condensation | 3.32 | 250 | ug/kg | J |
| | Unknown | 15.00 | 590 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 590 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-04-7.5-9.5 | |
| Lab Sample ID: JD35645-1 | Date Sampled: 11/19/21 |
| Matrix: SO - Soil | Date Received: 11/19/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 94.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105024.D | 1 | 12/10/21 23:27 | KLS | 11/23/21 10:30 | OP36783A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.4 | 1.7 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 67% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | |
| Lab Sample ID: | JD35645-1 | Date Sampled: 11/19/21 |
| Matrix: | SO - Soil | Date Received: 11/19/21 |
| Method: | SW846 8151A SW846 3546 | Percent Solids: 94.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134221.D | 1 | 11/25/21 09:57 | RK | 11/24/21 10:05 | OP36792 | G3G4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 7.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 115% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 68% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35645-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.6 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723092.D | 1 | 11/24/21 21:59 | TC | 11/23/21 10:00 | OP36786 | G4G3662 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.70 | 0.58 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.70 | 0.57 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.70 | 0.63 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.70 | 0.67 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.70 | 0.52 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.70 | 0.56 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.70 | 0.32 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.70 | 0.48 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 1.4 | 0.70 | 0.64 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 0.90 | 0.70 | 0.61 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 7.3 | 0.70 | 0.62 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.70 | 0.54 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.70 | 0.55 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.70 | 0.40 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.70 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.70 | 0.44 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.70 | 0.60 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.70 | 0.49 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.56 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.70 | 0.51 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 104% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 90% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 94% | | 10-179% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | |
| Lab Sample ID: | JD35645-1 | Date Sampled: 11/19/21 |
| Matrix: | SO - Soil | Date Received: 11/19/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 94.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK6651.D | 1 | 11/25/21 19:18 | CP | 11/23/21 10:00 | OP36787 | GRK173 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 ^a | ND | 35 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 ^a | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 137% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 130% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 126% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 118% | | 10-172% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-04-7.5-9.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35645-1 | Date Received: | 11/19/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 4340 | 50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.0 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 2.9 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 39.0 | 20 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.31 | 0.20 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.50 | 0.50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 2150 | 500 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 15.2 | 1.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 5.3 | 5.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 16.8 | 2.5 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 16100 | 50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 20.3 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 3940 | 500 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 193 | 1.5 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.037 | 0.031 | mg/kg | 1 | 11/24/21 | 11/24/21 | SB SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 35.4 | 4.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1000 | 1000 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.0 | 2.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | 0.60 | 0.50 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1000 | 1000 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.0 | 1.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 14.8 | 5.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 37.4 | 5.0 | mg/kg | 1 | 11/30/21 | 12/01/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51485

(2) Instrument QC Batch: MA51523

(3) Prep QC Batch: MP30023

(4) Prep QC Batch: MP30071

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-04-7.5-9.5 Lab Sample ID: JD35645-1 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/19/21 Percent Solids: 94.6 |
|---|--|

4.1

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 02:05 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 94.6 | | % | 1 | 11/22/21 17:03 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-04-7.5-9.5 | | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35645-1A | | Date Received: 11/19/21 |
| Matrix: SO - Soil | | Percent Solids: 94.6 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 96% | | 40-140% |
| | 13C5-PFPeA | 98% | | 50-150% |
| | 13C5-PFHxA | 99% | | 50-150% |
| | 13C4-PFHpA | 100% | | 50-150% |
| | 13C8-PFOA | 102% | | 50-150% |
| | 13C9-PFNA | 104% | | 50-150% |
| | 13C6-PFDA | 107% | | 50-150% |
| | 13C7-PFUnDA | 105% | | 40-140% |
| | 13C2-PFDoDA | 103% | | 40-140% |
| | 13C2-PFTeDA | 101% | | 30-130% |
| | 13C3-PFBS | 97% | | 50-150% |
| | 13C3-PFHxS | 96% | | 50-150% |
| | 13C8-PFOS | 100% | | 50-150% |
| | 13C8-FOSA | 107% | | 30-130% |
| | d3-MeFOSAA | 107% | | 40-140% |
| | d5-EtFOSAA | 112% | | 40-140% |
| | 13C2-6:2FTS | 96% | | 50-150% |
| | 13C2-8:2FTS | 99% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)



SO
SLC

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3489/3480
www.sgs.com/ehsusa

FED-EX Tracking #
SGS Quote #
Bottle Order Control # 48-11121141
SGS Job # JD 35645

EHSA-QAC-0023-04-FORM-Standard COC

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|---|--|--|--|--|--|--|--|--|--|--|--|---------------------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Client / Reporting Information | | Project Information | | Requested Analysis | | | | | | | | | | Matrix Codes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name: TETRA TECH | | Project Name: 2nd Ave + 33rd St. | | <table border="1"> <tr><td>V8260</td><td>TCL20*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>AB8270</td><td>TCL P20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>B8270</td><td>SIM 14DOX</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>P8081</td><td>PEST. TCL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>P8082</td><td>PCB 11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>H8151</td><td>STD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>VMTM</td><td>CN</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>MTRAL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>LCID</td><td>537NYZ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | | | | V8260 | TCL20* | | | | | | | | | | | | | | | | | | | | AB8270 | TCL P20 | | | | | | | | | | | | | | | | | | | | B8270 | SIM 14DOX | | | | | | | | | | | | | | | | | | | | P8081 | PEST. TCL | | | | | | | | | | | | | | | | | | | | P8082 | PCB 11 | | | | | | | | | | | | | | | | | | | | H8151 | STD | | | | | | | | | | | | | | | | | | | | VMTM | CN | | | | | | | | | | | | | | | | | | | | MTRAL | | | | | | | | | | | | | | | | | | | | | LCID | 537NYZ | | | | | | | | | | | | | | | | | | | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank |
| V8260 | TCL20* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AB8270 | TCL P20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B8270 | SIM 14DOX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P8081 | PEST. TCL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P8082 | PCB 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H8151 | STD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VMTM | CN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MTRAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCID | 537NYZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Street Address: 6 CENTURY DR. | | Street: 2nd Ave + 33rd St. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: PARLIPPANY NJ | | City: PARLIPPANY NJ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State: 07954 | | State: 07954 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Contact: BOB CANTAGALLO | | Project #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-mail: BOB.CANTAGALLO@TETRA TECH.COM | | Client Purchase Order #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 973 630 4045 | | City: PARLIPPANY NJ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample(s) Name(s): A-VANU | | Project Manager: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 973 630 4045 | | Attention: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample(s) Name(s): A-VANU | | Attention: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Turn Around Time (Business Days) | | Deliverable | | | | | | | | | | Comments / Special Instructions | |
| <input type="checkbox"/> 10 Business Days <input type="checkbox"/> 5 Business Days <input type="checkbox"/> 3 Business Days* <input type="checkbox"/> 2 Business Days* <input type="checkbox"/> 1 Business Day* <input type="checkbox"/> Other _____ | | <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NJ Reduced (Level 3) <input type="checkbox"/> Full Tier 1 (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ DKQP | | | | | | | | | | <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> MA MCP Criteria <input type="checkbox"/> CT RCP Criteria <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format | <input type="checkbox"/> DOD-QSMS * 375g encase Initial Assessment SP3B Label Verification _____ |
| Approved By (SGS PM): / Date: _____ * Approval needed for 1-3 Business Day TAT | | Commercial "A" = Results only; Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data | | | | | | | | | | http://www.sgs.com/en/terms-and-conditions | |

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Relinquished By: AAVE Date / Time: 11/19/21 8:07 | | | | | | | | | | Relinquished By: JP Date / Time: 11/19/21 | | | | | | | | | |
| Received By: JP Date / Time: 11/19/21 8:07 | | | | | | | | | | Received By: Jamir Latif Date / Time: 11/19/21 | | | | | | | | | |
| Relinquished By: 3 Date / Time: 3 | | | | | | | | | | Relinquished By: 4 Date / Time: 4 | | | | | | | | | |
| Relinquished By: 5 Date / Time: 5 | | | | | | | | | | Relinquished By: 5 Date / Time: 5 | | | | | | | | | |

CIP 21.4 / 2.4



SGS Sample Receipt Summary

Job Number: JD35645

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 11/19/2021 6:07:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.0);

Cooler Security

- | | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Cooler Temperature

- | | <u>Y</u> | <u>or</u> | <u>N</u> |
|------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

Quality Control Preservation

- | | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

- | | <u>Y</u> | <u>or</u> | <u>N</u> |
|--|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Sample Integrity - Condition

- | | <u>Y</u> | <u>or</u> | <u>N</u> |
|----------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

Sample Integrity - Instructions

- | | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD35645: Chain of Custody

Page 2 of 3

5.1

Job Change Order: JD35645

Requested Date: 12/13/2021 **Received Date:** 11/19/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD35645-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD35645: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

SGS Sample Receipt Summary

Job Number: JD35645

Client: SGS NJ

Project: 2ND AVENUE

Date / Time Received: 11/23/2021 10:15:00 AM

Delivery Method: FX

Airbill #'s: 5272 0636 5606

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

Cooler Information

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler
 - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

Sample Information

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____
 Test Strip Lot #: pH 0-3 230315
 Residual Chlorine Test Strip Lot #: _____

Number of 5035 Field Kits: _____
 pH 10-12 219813A

Number of Lab Filtered Metals: _____
 Other: (Specify) _____

Comments

SM001
Rev. Date 05/24/17

Technician: PETERH

Date: 11/23/2021 10:15:00

Reviewer: _____

Date: _____

JD35645: Chain of Custody

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5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD35782

Sampling Dates: 11/19/21 - 11/23/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 122



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Sample Summary

Tetra Tech

Job No: JD35782

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | | |
|------------|----------|-------|----|----------|----|------|------------------|
| JD35782-1 | 11/19/21 | 13:50 | AV | 11/23/21 | SO | Soil | TT-SB-05-6.5-8.5 |
| JD35782-1A | 11/19/21 | 13:50 | AV | 11/23/21 | SO | Soil | TT-SB-05-6.5-8.5 |
| JD35782-2 | 11/19/21 | 16:00 | AV | 11/23/21 | SO | Soil | S DUP-01 |
| JD35782-2A | 11/19/21 | 16:00 | AV | 11/23/21 | SO | Soil | S DUP-01 |
| JD35782-3 | 11/22/21 | 09:35 | AV | 11/23/21 | SO | Soil | TT-SB-06-5.0-7.0 |
| JD35782-3A | 11/22/21 | 09:35 | AV | 11/23/21 | SO | Soil | TT-SB-06-5.0-7.0 |
| JD35782-4 | 11/22/21 | 12:23 | AV | 11/23/21 | SO | Soil | TT-SB-07-6.0-8.0 |
| JD35782-4A | 11/22/21 | 12:23 | AV | 11/23/21 | SO | Soil | TT-SB-07-6.0-8.0 |
| JD35782-5 | 11/22/21 | 14:04 | AV | 11/23/21 | SO | Soil | TT-SB-08-7.0-9.0 |
| JD35782-5A | 11/22/21 | 14:04 | AV | 11/23/21 | SO | Soil | TT-SB-08-7.0-9.0 |
| JD35782-6 | 11/23/21 | 09:15 | AV | 11/23/21 | SO | Soil | TT-SB-09-5.0-7.0 |
| JD35782-6A | 11/23/21 | 09:15 | AV | 11/23/21 | SO | Soil | TT-SB-09-5.0-7.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

Tetra Tech

Job No: JD35782

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|-------------------|------------------|
| | Date | Time By | | Code | Type | |
| JD35782-6AD | 11/23/21 | 09:15 AV | 11/23/21 | SO | Soil Dup/MSD | TT-SB-09-5.0-7.0 |
| JD35782-6AS | 11/23/21 | 09:15 AV | 11/23/21 | SO | Soil Matrix Spike | TT-SB-09-5.0-7.0 |
| JD35782-6D | 11/23/21 | 09:15 AV | 11/23/21 | SO | Soil Dup/MSD | TT-SB-09-5.0-7.0 |
| JD35782-6S | 11/23/21 | 09:15 AV | 11/23/21 | SO | Soil Matrix Spike | TT-SB-09-5.0-7.0 |
| JD35782-7 | 11/23/21 | 11:06 AV | 11/23/21 | SO | Soil | TT-SB-10-7.0-9.0 |
| JD35782-7A | 11/23/21 | 11:06 AV | 11/23/21 | SO | Soil | TT-SB-10-7.0-9.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No: JD35782

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/23/2021 1:27:54 P

On 11/23/2021, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35782 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: VI9766

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.
- JD35782-5 for 1,3-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-2 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for 1,2-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-1 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD35782-4 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for 1,3-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- VI9766-BS for 1,2-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- JD35782-3 for 1,3-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-3 for 1,2-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-3 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD35782-3 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- VI9766-BS for Trichlorofluoromethane: High percent recovery and no associated positive reported in the QC batch.
- JD35782-6 for 1,2-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-6 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD35782-1 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for 1,2-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- VI9766-BS for 1,3-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- JD35782-6 for 1,3-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-4 for 1,3-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-5 for 1,2-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-2 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD35782-2 for 1,2-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.

Thursday, December 23, 2021

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MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: VI9766

- JD35782-2 for 1,3-Dichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD35782-5 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

Matrix: SO

Batch ID: VI9767

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD35839-2MS, JD35839-4DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88771

- The data for EPA 537M BY ID meets quality control requirements.
- JD35782-4A: Analysis performed at SGS Orlando, FL.
- JD35782-7A: Analysis performed at SGS Orlando, FL.
- JD35782-1A: Analysis performed at SGS Orlando, FL.
- JD35782-3A: Analysis performed at SGS Orlando, FL.
- JD35782-6A: Analysis performed at SGS Orlando, FL.
- JD35782-2A: Analysis performed at SGS Orlando, FL.
- JD35782-5A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36836

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for Hexachlorocyclopentadiene are outside of in house control limits.
- JD35782-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD35782-6 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- OP36836-MSD for Hexachlorocyclopentadiene: Outside of in house control limits.
- JD35782-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.

Thursday, December 23, 2021

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MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36836

- JD35782-2 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for Acetophenone: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD35782-7 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD35782-3 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35782-6 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-7 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD35782-4 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD35782-2 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD35782-5 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36836A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36830

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MS/MSD for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, Dieldrin, Endosulfan sulfate, Endosulfan-I, Endosulfan-II, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC (Lindane), gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor are outside control limits. Analytical precision exceeds in-house control limits.
- Matrix Spike Duplicate Recovery(s) for alpha-Chlordane, gamma-Chlordane, 4,4'-DDD, 4,4'-DDE are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD35782-2: Confirmation run.
- JD35782-6: Confirmation run.
- JD35782-4: Confirmation run.
- OP36830-BS1: Had TBA cleanup.
- OP36830-MB1: Had TBA cleanup.
- JD35782-1: Confirmation run.
- JD35782-2 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35782-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35782-4 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35782-4 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-4 for alpha-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-4 for Aldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-4 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-2 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35782-4 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35782-6 for Aldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-4 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-2 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-1 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-1 for gamma-BHC (Lindane): More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-2 for gamma-BHC (Lindane): More than 40 % RPD for detected concentrations between the two GC columns.
- OP36830-BS1 for Heptachlor epoxide: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD35782-2 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-4 for gamma-BHC (Lindane): More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-2 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-2 for Endrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-2 for Aldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-1 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-4 for Endrin ketone: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-7 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-7 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35782-6 for Heptachlor epoxide: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

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GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36830

- JD35782-6 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36831

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36859

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-T, 2,4,5-TP (Silvex) are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for 2,4,5-T, 2,4,5-TP (Silvex) are outside control limits. Analytical precision exceeds in-house control limits.
- JD35782-2: Had TBA cleanup. Dilution required due to matrix interference.
- JD35782-6: Had TBA cleanup. Dilution required due to matrix interference.
- JD35782-5: Had TBA cleanup. Dilution required due to matrix interference.
- JD35782-4: Had TBA cleanup. Dilution required due to matrix interference.
- OP36859-MB1: Had TBA cleanup.
- JD35782-1: Had TBA cleanup. Dilution required due to matrix interference.
- OP36859-MS: Had TBA cleanup. Dilution required due to matrix interference.
- OP36859-BS1: Had TBA cleanup.
- JD35782-7: Had TBA cleanup. Dilution required due to matrix interference.
- OP36859-MSD: Had TBA cleanup. Dilution required due to matrix interference.
- JD35782-7 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.
- JD35782-4 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.
- JD35782-5 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.
- JD35782-2 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.
- JD35782-1 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.
- JD35782-6 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.
- JD35782-3 for 2,4,5-T: Associated CCV outside of control limits high, sample was ND.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30089

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD, JD35782-6PS, JD35782-6SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Iron, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Calcium, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MS/MSD for Magnesium are outside control limits. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Potassium, Silver, Sodium, Thallium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD35782-7 for Silver: Elevated detection limit due to dilution required for high interfering element.
- MP30089-SD1 for Iron: Serial dilution indicates possible matrix interference.
- MP30089-MB1 for Iron: All reported results <RL or >10x MB value.
- MP30089-SD1 for Aluminum, Barium : Serial dilution indicates possible matrix interference.
- MP30089-SD1 for Copper: Serial dilution indicates possible matrix interference.
- JD35782-5 for Silver: Elevated detection limit due to dilution required for high interfering element.
- MP30089-SD1 for Magnesium: Serial dilution indicates possible matrix interference.
- MP30089-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- MP30089-SD1 for Vanadium: Serial dilution indicates possible matrix interference.
- JD35782-2 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD35782-4 for Silver: Elevated detection limit due to dilution required for high interfering element.
- MP30089-SD1 for Calcium: Serial dilution indicates possible matrix interference.
- MP30089-MB1 for Aluminum: All reported results <RL or >10x MB value.
- MP30089-MB1 for Manganese: All reported results <RL or >10x MB value.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30055

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24290

- Sample(s) JD35782-6DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37293

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6DUP, JD35782-6MS, JD35782-7MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- JD35782-1 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35782-6 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35782-4 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35782-2 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35782-3 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35782-5 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35782-7 for Cyanide: Sample prepped within holding time, but run out of holding time.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD35782

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/22/2021 6:56:37

On 11/23/2021, 7 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35782 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88771

Sample(s) JD35782-6AMS, JD35782-6AMSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD35782-1 | TT-SB-05-6.5-8.5 | | | | | |
| Acetone | | 18.8 | 11 | 4.4 | ug/kg | SW846 8260D |
| Carbon disulfide | | 0.76 J | 2.1 | 0.57 | ug/kg | SW846 8260D |
| Acenaphthene | | 237 | 42 | 15 | ug/kg | SW846 8270E |
| Acenaphthylene | | 178 | 42 | 21 | ug/kg | SW846 8270E |
| Anthracene | | 528 | 42 | 26 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 1270 | 42 | 12 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 1160 | 42 | 19 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 1370 | 42 | 19 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 690 | 42 | 21 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 571 | 42 | 20 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 28.8 J | 84 | 5.8 | ug/kg | SW846 8270E |
| Carbazole | | 158 | 84 | 6.1 | ug/kg | SW846 8270E |
| Chrysene | | 1430 | 42 | 13 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 204 | 42 | 19 | ug/kg | SW846 8270E |
| Dibenzofuran | | 169 | 84 | 17 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 173 | 84 | 9.9 | ug/kg | SW846 8270E |
| Fluoranthene | | 2600 | 42 | 19 | ug/kg | SW846 8270E |
| Fluorene | | 269 | 42 | 19 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 881 | 42 | 20 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 76.1 | 42 | 9.5 | ug/kg | SW846 8270E |
| Naphthalene | | 201 | 42 | 12 | ug/kg | SW846 8270E |
| Phenanthrene | | 1720 | 42 | 14 | ug/kg | SW846 8270E |
| Pyrene | | 2790 | 42 | 14 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 8870 J | | | ug/kg | |
| gamma-BHC (Lindane) ^a | | 2.8 | 0.84 | 0.62 | ug/kg | SW846 8081B |
| gamma-Chlordane ^a | | 2.5 | 0.84 | 0.38 | ug/kg | SW846 8081B |
| 4,4'-DDD | | 20.2 | 0.84 | 0.78 | ug/kg | SW846 8081B |
| 4,4'-DDE | | 5.8 | 0.84 | 0.74 | ug/kg | SW846 8081B |
| 4,4'-DDT ^a | | 2.2 | 0.84 | 0.75 | ug/kg | SW846 8081B |
| Aluminum | | 5910 | 44 | | mg/kg | SW846 6010D |
| Arsenic | | 4.7 | 1.7 | | mg/kg | SW846 6010D |
| Barium | | 658 | 17 | | mg/kg | SW846 6010D |
| Beryllium | | 0.44 | 0.17 | | mg/kg | SW846 6010D |
| Cadmium | | 0.54 | 0.44 | | mg/kg | SW846 6010D |
| Calcium | | 24400 | 870 | | mg/kg | SW846 6010D |
| Chromium | | 13.6 | 0.87 | | mg/kg | SW846 6010D |
| Copper | | 39.2 | 2.2 | | mg/kg | SW846 6010D |
| Iron | | 11400 | 44 | | mg/kg | SW846 6010D |
| Lead | | 363 | 1.7 | | mg/kg | SW846 6010D |
| Magnesium | | 4160 | 440 | | mg/kg | SW846 6010D |
| Manganese | | 256 | 1.3 | | mg/kg | SW846 6010D |
| Mercury | | 0.33 | 0.017 | | mg/kg | SW846 7471B |
| Nickel | | 13.3 | 3.5 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | | |
|-----------|--|------|------|--|-------|-------------|
| Potassium | | 1110 | 870 | | mg/kg | SW846 6010D |
| Silver | | 0.80 | 0.44 | | mg/kg | SW846 6010D |
| Vanadium | | 21.3 | 4.4 | | mg/kg | SW846 6010D |
| Zinc | | 370 | 4.4 | | mg/kg | SW846 6010D |

JD35782-1A TT-SB-05-6.5-8.5

No hits reported in this sample.

JD35782-2 S DUP-01

| | | | | | | |
|----------------------------------|--|--------|------|------|-------|-------------|
| Acetone | | 20.7 | 9.3 | 3.9 | ug/kg | SW846 8260D |
| Carbon disulfide | | 1.2 J | 1.9 | 0.50 | ug/kg | SW846 8260D |
| o-Xylene | | 0.51 J | 0.93 | 0.43 | ug/kg | SW846 8260D |
| Xylene (total) | | 0.51 J | 0.93 | 0.43 | ug/kg | SW846 8260D |
| Total TIC, Volatile | | 33.9 J | | | ug/kg | |
| Acenaphthene | | 144 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 157 | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 360 | 37 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 861 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 746 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 942 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 432 | 37 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 387 | 37 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 16.1 J | 73 | 5.0 | ug/kg | SW846 8270E |
| Carbazole | | 108 | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | | 926 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 139 | 37 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | | 87.5 | 73 | 15 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 1170 | 73 | 8.6 | ug/kg | SW846 8270E |
| Fluoranthene | | 1790 | 37 | 16 | ug/kg | SW846 8270E |
| Fluorene | | 175 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 558 | 37 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 40.5 | 37 | 8.3 | ug/kg | SW846 8270E |
| Naphthalene | | 93.3 | 37 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | | 1190 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 1850 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 4520 J | | | ug/kg | |
| Aldrin ^a | | 1.5 | 0.76 | 0.63 | ug/kg | SW846 8081B |
| gamma-BHC (Lindane) ^a | | 7.9 | 0.76 | 0.56 | ug/kg | SW846 8081B |
| alpha-Chlordane | | 6.9 | 0.76 | 0.61 | ug/kg | SW846 8081B |
| gamma-Chlordane ^a | | 4.9 | 0.76 | 0.34 | ug/kg | SW846 8081B |
| Dieldrin ^a | | 1.6 | 0.76 | 0.52 | ug/kg | SW846 8081B |
| 4,4'-DDD | | 29.5 | 0.76 | 0.70 | ug/kg | SW846 8081B |
| 4,4'-DDE | | 9.0 | 0.76 | 0.67 | ug/kg | SW846 8081B |

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|------|-------|-------------|
| 4,4'-DDT ^a | | 4.5 | 0.76 | 0.67 | ug/kg | SW846 8081B |
| Endrin ^a | | 0.92 | 0.76 | 0.59 | ug/kg | SW846 8081B |
| Endosulfan-II | | 4.8 | 0.76 | 0.48 | ug/kg | SW846 8081B |
| Aluminum | | 5420 | 56 | | mg/kg | SW846 6010D |
| Arsenic | | 4.3 | 2.2 | | mg/kg | SW846 6010D |
| Barium | | 812 | 22 | | mg/kg | SW846 6010D |
| Beryllium | | 0.43 | 0.22 | | mg/kg | SW846 6010D |
| Cadmium | | 0.65 | 0.56 | | mg/kg | SW846 6010D |
| Calcium | | 32000 | 1100 | | mg/kg | SW846 6010D |
| Chromium | | 12.4 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 29.2 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 11100 | 56 | | mg/kg | SW846 6010D |
| Lead | | 337 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 3740 | 560 | | mg/kg | SW846 6010D |
| Manganese | | 255 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.34 | 0.030 | | mg/kg | SW846 7471B |
| Nickel | | 12.5 | 4.5 | | mg/kg | SW846 6010D |
| Vanadium | | 20.4 | 5.6 | | mg/kg | SW846 6010D |
| Zinc | | 422 | 5.6 | | mg/kg | SW846 6010D |

JD35782-2A S DUP-01

No hits reported in this sample.

JD35782-3 TT-SB-06-5.0-7.0

| | | | | | | |
|--------------------------|--|--------|------|-----|-------|-------------|
| Acetone | | 10.2 | 8.6 | 3.5 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | | 33.5 J | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 40.0 | 36 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 44.6 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 22.2 J | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 20.1 J | 36 | 17 | ug/kg | SW846 8270E |
| Chrysene | | 30.8 J | 36 | 11 | ug/kg | SW846 8270E |
| Fluoranthene | | 52.6 | 36 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 28.7 J | 36 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | | 17.2 J | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 59.8 | 36 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 160 J | | | ug/kg | |
| Aluminum | | 4600 | 55 | | mg/kg | SW846 6010D |
| Arsenic | | 2.2 | 2.2 | | mg/kg | SW846 6010D |
| Barium | | 37.1 | 22 | | mg/kg | SW846 6010D |
| Beryllium | | 0.53 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | | 2290 | 550 | | mg/kg | SW846 6010D |
| Chromium | | 11.7 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 10.5 | 2.7 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-------|-----|-------|-------------|
| Iron | | 8890 | 55 | | mg/kg | SW846 6010D |
| Lead | | 15.8 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 2240 | 550 | | mg/kg | SW846 6010D |
| Manganese | | 170 | 1.6 | | mg/kg | SW846 6010D |
| Mercury | | 0.070 | 0.031 | | mg/kg | SW846 7471B |
| Nickel | | 16.9 | 4.4 | | mg/kg | SW846 6010D |
| Vanadium | | 17.0 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | | 32.4 | 5.5 | | mg/kg | SW846 6010D |

JD35782-3A TT-SB-06-5.0-7.0

No hits reported in this sample.

JD35782-4 TT-SB-07-6.0-8.0

| | | | | | | |
|----------------------------------|--|---------|------|------|-------|-------------|
| Acetone | | 8.9 J | 11 | 4.4 | ug/kg | SW846 8260D |
| Benzene | | 3.8 | 0.53 | 0.48 | ug/kg | SW846 8260D |
| Carbon disulfide | | 0.68 J | 2.1 | 0.57 | ug/kg | SW846 8260D |
| Toluene | | 1.5 | 1.1 | 0.56 | ug/kg | SW846 8260D |
| Acenaphthene | | 307 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 203 | 37 | 19 | ug/kg | SW846 8270E |
| Acetophenone ^b | | 23.5 J | 190 | 8.1 | ug/kg | SW846 8270E |
| Anthracene | | 790 | 37 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 2120 | 37 | 11 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 1850 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 2370 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 1050 | 37 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 902 | 37 | 18 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 37.9 J | 75 | 5.1 | ug/kg | SW846 8270E |
| Carbazole | | 273 | 75 | 5.4 | ug/kg | SW846 8270E |
| Chrysene | | 2330 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 338 | 37 | 17 | ug/kg | SW846 8270E |
| Dibenzofuran | | 223 | 75 | 15 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 173 | 75 | 8.8 | ug/kg | SW846 8270E |
| Fluoranthene | | 3770 | 75 | 33 | ug/kg | SW846 8270E |
| Fluorene | | 243 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 1350 | 37 | 18 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 139 | 37 | 8.5 | ug/kg | SW846 8270E |
| Naphthalene | | 245 | 37 | 11 | ug/kg | SW846 8270E |
| Phenanthrene | | 2680 | 37 | 13 | ug/kg | SW846 8270E |
| Pyrene | | 3930 | 75 | 24 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 10530 J | | | ug/kg | |
| Aldrin ^a | | 2.1 | 0.70 | 0.57 | ug/kg | SW846 8081B |
| alpha-BHC ^a | | 1.1 | 0.70 | 0.57 | ug/kg | SW846 8081B |
| gamma-BHC (Lindane) ^a | | 9.5 | 0.70 | 0.51 | ug/kg | SW846 8081B |

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| alpha-Chlordane | | 21.3 | 0.70 | 0.56 | ug/kg | SW846 8081B |
| gamma-Chlordane | | 23.5 | 0.70 | 0.32 | ug/kg | SW846 8081B |
| Dieldrin ^a | | 1.0 | 0.70 | 0.48 | ug/kg | SW846 8081B |
| 4,4'-DDD ^a | | 5.7 | 0.70 | 0.64 | ug/kg | SW846 8081B |
| 4,4'-DDE | | 4.1 | 0.70 | 0.61 | ug/kg | SW846 8081B |
| 4,4'-DDT ^a | | 4.2 | 0.70 | 0.62 | ug/kg | SW846 8081B |
| Heptachlor epoxide | | 1.5 | 0.70 | 0.49 | ug/kg | SW846 8081B |
| Endrin ketone ^a | | 3.3 | 0.70 | 0.50 | ug/kg | SW846 8081B |
| Aluminum | | 4920 | 55 | | mg/kg | SW846 6010D |
| Arsenic | | 5.7 | 2.2 | | mg/kg | SW846 6010D |
| Barium | | 92.5 | 22 | | mg/kg | SW846 6010D |
| Beryllium | | 0.44 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | | 65100 | 2700 | | mg/kg | SW846 6010D |
| Chromium | | 10.5 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 32.7 | 2.7 | | mg/kg | SW846 6010D |
| Iron | | 17000 | 55 | | mg/kg | SW846 6010D |
| Lead | | 169 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 3430 | 550 | | mg/kg | SW846 6010D |
| Manganese | | 248 | 1.6 | | mg/kg | SW846 6010D |
| Mercury | | 0.16 | 0.031 | | mg/kg | SW846 7471B |
| Nickel | | 17.7 | 4.4 | | mg/kg | SW846 6010D |
| Vanadium | | 17.4 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | | 115 | 5.5 | | mg/kg | SW846 6010D |

JD35782-4A TT-SB-07-6.0-8.0

No hits reported in this sample.

JD35782-5 TT-SB-08-7.0-9.0

| | | | | | | |
|----------------------------|--|--------|-----|-----|-------|-------------|
| Acetone | | 23.2 | 20 | 8.2 | ug/kg | SW846 8260D |
| Carbon disulfide | | 1.9 J | 4.0 | 1.1 | ug/kg | SW846 8260D |
| Total TIC, Volatile | | 3960 J | | | ug/kg | |
| Acenaphthene | | 179 | 35 | 12 | ug/kg | SW846 8270E |
| Anthracene | | 169 | 35 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 106 | 35 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 107 | 35 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 121 | 35 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 63.1 | 35 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 46.1 | 35 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 26.8 J | 71 | 4.8 | ug/kg | SW846 8270E |
| Chrysene | | 124 | 35 | 11 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 19.2 J | 35 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | | 173 | 71 | 14 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 111 | 71 | 8.3 | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|------|-------|-------------|
| | | 262 | 35 | 16 | ug/kg | SW846 8270E |
| Fluoranthene | | 339 | 35 | 16 | ug/kg | SW846 8270E |
| Fluorene | | 77.7 | 35 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 1050 | 35 | 8.0 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 70.0 | 35 | 10 | ug/kg | SW846 8270E |
| Naphthalene | | 943 | 35 | 12 | ug/kg | SW846 8270E |
| Phenanthrene | | 267 | 35 | 11 | ug/kg | SW846 8270E |
| Pyrene | | 53900 J | | | ug/kg | |
| Total TIC, Semi-Volatile | | 0.82 | 0.66 | 0.58 | ug/kg | SW846 8081B |
| 4,4'-DDE | | 8770 | 55 | | mg/kg | SW846 6010D |
| Aluminum | | 85.1 | 22 | | mg/kg | SW846 6010D |
| Barium | | 0.81 | 0.22 | | mg/kg | SW846 6010D |
| Beryllium | | 30700 | 1100 | | mg/kg | SW846 6010D |
| Calcium | | 17.6 | 1.1 | | mg/kg | SW846 6010D |
| Chromium | | 12.8 | 5.5 | | mg/kg | SW846 6010D |
| Cobalt | | 44.4 | 2.8 | | mg/kg | SW846 6010D |
| Copper | | 16800 | 55 | | mg/kg | SW846 6010D |
| Iron | | 31.8 | 2.2 | | mg/kg | SW846 6010D |
| Lead | | 17900 | 550 | | mg/kg | SW846 6010D |
| Magnesium | | 313 | 1.7 | | mg/kg | SW846 6010D |
| Manganese | | 0.28 | 0.035 | | mg/kg | SW846 7471B |
| Mercury | | 23.6 | 4.4 | | mg/kg | SW846 6010D |
| Nickel | | 3080 | 1100 | | mg/kg | SW846 6010D |
| Potassium | | 30.3 | 5.5 | | mg/kg | SW846 6010D |
| Vanadium | | 230 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | | | | | | |

JD35782-5A TT-SB-08-7.0-9.0

No hits reported in this sample.

JD35782-6 TT-SB-09-5.0-7.0

| | | | | | | |
|------------------------|--|--------|-----|-----|-------|-------------|
| Acetone | | 22.6 | 9.1 | 3.8 | ug/kg | SW846 8260D |
| Acenaphthene | | 39.8 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 62.9 | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 92.6 | 37 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 156 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 190 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 236 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 143 | 37 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 82.5 | 37 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 11.5 J | 74 | 5.0 | ug/kg | SW846 8270E |
| Carbazole | | 16.1 J | 74 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | | 208 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 35.9 J | 37 | 16 | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-------|------|-------|-------------|
| | | 20.0 J | 74 | 15 | ug/kg | SW846 8270E |
| | | 326 | 74 | 8.6 | ug/kg | SW846 8270E |
| | | 302 | 37 | 16 | ug/kg | SW846 8270E |
| | | 22.7 J | 37 | 17 | ug/kg | SW846 8270E |
| | | 160 | 37 | 17 | ug/kg | SW846 8270E |
| | | 16.6 J | 37 | 8.3 | ug/kg | SW846 8270E |
| | | 24.8 J | 37 | 10 | ug/kg | SW846 8270E |
| | | 141 | 37 | 12 | ug/kg | SW846 8270E |
| | | 408 | 37 | 12 | ug/kg | SW846 8270E |
| | | 13700 J | | | ug/kg | |
| | | 0.96 | 0.72 | 0.59 | ug/kg | SW846 8081B |
| | | 6.8 | 0.72 | 0.58 | ug/kg | SW846 8081B |
| | | 6.8 | 0.72 | 0.33 | ug/kg | SW846 8081B |
| | | 0.90 | 0.72 | 0.49 | ug/kg | SW846 8081B |
| | | 8.7 | 0.72 | 0.66 | ug/kg | SW846 8081B |
| | | 3.7 | 0.72 | 0.63 | ug/kg | SW846 8081B |
| | | 2.0 | 0.72 | 0.64 | ug/kg | SW846 8081B |
| | | 0.94 | 0.72 | 0.62 | ug/kg | SW846 8081B |
| | | 1.8 | 0.72 | 0.50 | ug/kg | SW846 8081B |
| | | 7740 | 55 | | mg/kg | SW846 6010D |
| | | 6.4 | 2.2 | | mg/kg | SW846 6010D |
| | | 69.5 | 22 | | mg/kg | SW846 6010D |
| | | 0.56 | 0.22 | | mg/kg | SW846 6010D |
| | | 21800 | 550 | | mg/kg | SW846 6010D |
| | | 15.5 | 1.1 | | mg/kg | SW846 6010D |
| | | 6.0 | 5.5 | | mg/kg | SW846 6010D |
| | | 36.2 | 2.8 | | mg/kg | SW846 6010D |
| | | 13800 | 55 | | mg/kg | SW846 6010D |
| | | 71.4 | 2.2 | | mg/kg | SW846 6010D |
| | | 3030 | 550 | | mg/kg | SW846 6010D |
| | | 253 | 1.7 | | mg/kg | SW846 6010D |
| | | 0.15 | 0.037 | | mg/kg | SW846 7471B |
| | | 19.6 | 4.4 | | mg/kg | SW846 6010D |
| | | 1170 | 1100 | | mg/kg | SW846 6010D |
| | | 0.87 | 0.55 | | mg/kg | SW846 6010D |
| | | 24.2 | 5.5 | | mg/kg | SW846 6010D |
| | | 63.7 | 5.5 | | mg/kg | SW846 6010D |

JD35782-6A TT-SB-09-5.0-7.0

No hits reported in this sample.

JD35782-7 TT-SB-10-7.0-9.0

| | | | | | | |
|---------|--|------|----|-----|-------|-------------|
| Acetone | | 22.6 | 15 | 6.0 | ug/kg | SW846 8260D |
|---------|--|------|----|-----|-------|-------------|

Summary of Hits

Job Number: JD35782
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/19/21 thru 11/23/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| Benzene | | 2.5 | 0.73 | 0.66 | ug/kg | SW846 8260D |
| Carbon disulfide | | 2.1 J | 2.9 | 0.78 | ug/kg | SW846 8260D |
| Toluene | | 1.5 | 1.5 | 0.76 | ug/kg | SW846 8260D |
| Acenaphthene | | 107 | 38 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 121 | 38 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 244 | 38 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 634 | 38 | 11 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 574 | 38 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 698 | 38 | 17 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 316 | 38 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 281 | 38 | 18 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 11.7 J | 75 | 5.2 | ug/kg | SW846 8270E |
| Carbazole | | 40.5 J | 75 | 5.5 | ug/kg | SW846 8270E |
| Chrysene | | 686 | 38 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 95.3 | 38 | 17 | ug/kg | SW846 8270E |
| Dibenzofuran | | 85.5 | 75 | 15 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 160 | 75 | 8.8 | ug/kg | SW846 8270E |
| Fluoranthene | | 1140 | 38 | 17 | ug/kg | SW846 8270E |
| Fluorene | | 83.7 | 38 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 400 | 38 | 18 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 37.7 J | 38 | 8.5 | ug/kg | SW846 8270E |
| Naphthalene | | 106 | 38 | 11 | ug/kg | SW846 8270E |
| Phenanthrene | | 539 | 38 | 13 | ug/kg | SW846 8270E |
| Pyrene | | 1260 | 38 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 3920 J | | | ug/kg | |
| 4,4'-DDD ^a | | 1.1 | 0.76 | 0.69 | ug/kg | SW846 8081B |
| 4,4'-DDE | | 2.2 | 0.76 | 0.66 | ug/kg | SW846 8081B |
| 4,4'-DDT ^a | | 0.86 | 0.76 | 0.67 | ug/kg | SW846 8081B |
| Methoxychlor | | 4.1 | 1.5 | 0.60 | ug/kg | SW846 8081B |
| Aluminum | | 9560 | 57 | | mg/kg | SW846 6010D |
| Arsenic | | 4.5 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 78.5 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.62 | 0.23 | | mg/kg | SW846 6010D |
| Cadmium | | 3.0 | 0.57 | | mg/kg | SW846 6010D |
| Calcium | | 30100 | 1100 | | mg/kg | SW846 6010D |
| Chromium | | 17.1 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | | 5.7 | 5.7 | | mg/kg | SW846 6010D |
| Copper | | 15.5 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 14700 | 57 | | mg/kg | SW846 6010D |
| Lead | | 73.3 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | | 8400 | 570 | | mg/kg | SW846 6010D |
| Manganese | | 390 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.11 | 0.037 | | mg/kg | SW846 7471B |
| Nickel | | 21.7 | 4.5 | | mg/kg | SW846 6010D |
| Potassium | | 2370 | 1100 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35782
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/19/21 thru 11/23/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | | |
|----------|--|------|-----|--|-------|-------------|
| Vanadium | | 22.7 | 5.7 | | mg/kg | SW846 6010D |
| Zinc | | 569 | 5.7 | | mg/kg | SW846 6010D |

JD35782-7A TT-SB-10-7.0-9.0

| | | | | | | |
|---|--|--------|------|------|-------|----------------|
| Perfluorooctanesulfonic acid ^d | | 0.36 J | 0.58 | 0.29 | ug/kg | EPA 537M BY ID |
|---|--|--------|------|------|-------|----------------|

- (a) More than 40 % RPD for detected concentrations between the two GC columns.
- (b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- (c) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- (d) Analysis performed at SGS Orlando, FL.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-1 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 76.4 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240192.D | 1 | 11/29/21 16:26 | PS | 11/24/21 08:00 | n/a | VI9766 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 18.8 | 11 | 4.4 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.54 | 0.49 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.4 | 0.60 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.1 | 0.46 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.4 | 1.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.4 | 0.82 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.6 | ug/kg | |
| 75-15-0 | Carbon disulfide | 0.76 | 2.1 | 0.57 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 2.1 | 0.66 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.1 | 0.49 | ug/kg | |
| 75-00-3 | Chloroethane ^a | ND | 5.4 | 0.63 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.1 | 0.56 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.4 | 2.1 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.1 | 0.70 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.1 | 0.74 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.1 | 0.60 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene ^b | ND | 1.1 | 0.59 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene ^b | ND | 1.1 | 0.53 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.53 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.4 | 0.78 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.53 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.50 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.1 | 0.70 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.90 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.66 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.1 | 0.51 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.1 | 0.51 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.1 | 0.49 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.49 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.4 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.4 | 2.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-05-6.5-8.5 | |
| Lab Sample ID: JD35782-1 | Date Sampled: 11/19/21 |
| Matrix: SO - Soil | Date Received: 11/23/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 76.4 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.1 | 1.5 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.4 | 1.5 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.1 | 0.94 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.50 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.4 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.4 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.1 | 0.43 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.1 | 0.64 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.1 | 0.62 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.1 | 0.56 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.4 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.4 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.1 | 0.52 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.1 | 0.59 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.82 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane ^c | ND | 5.4 | 0.73 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.1 | 0.52 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 0.96 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.49 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.49 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 100% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 87% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) This compound in blank spike is outside in house QC limits bias high.
- (c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-1 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 76.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176763.D | 1 | 12/03/21 06:37 | CS | 11/29/21 09:30 | OP36836 | EM7598 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 84 | 21 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 26 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 36 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 75 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 210 | 160 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 210 | 45 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 84 | 27 | ug/kg | |
| | 3&4-Methylphenol | ND | 84 | 35 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 210 | 28 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 420 | 110 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 170 | 40 | ug/kg | |
| 108-95-2 | Phenol | ND | 84 | 22 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 210 | 28 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 32 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 25 | ug/kg | |
| 83-32-9 | Acenaphthene | 237 | 42 | 15 | ug/kg | |
| 208-96-8 | Acenaphthylene | 178 | 42 | 21 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 210 | 9.1 | ug/kg | |
| 120-12-7 | Anthracene | 528 | 42 | 26 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 84 | 18 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1270 | 42 | 12 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1160 | 42 | 19 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1370 | 42 | 19 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 690 | 42 | 21 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 571 | 42 | 20 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 84 | 16 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 84 | 10 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 28.8 | 84 | 5.8 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 210 | 10 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 84 | 10 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 210 | 15 | ug/kg | |
| 86-74-8 | Carbazole | 158 | 84 | 6.1 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-1 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 76.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 84 | 17 | ug/kg | |
| 218-01-9 | Chrysene | 1430 | 42 | 13 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 84 | 9.0 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 84 | 18 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 84 | 15 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 84 | 14 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 42 | 13 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 42 | 21 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 84 | 35 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 42 | 28 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 204 | 42 | 19 | ug/kg | |
| 132-64-9 | Dibenzofuran | 169 | 84 | 17 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 84 | 6.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 84 | 11 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 84 | 9.0 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 84 | 7.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 173 | 84 | 9.9 | ug/kg | |
| 206-44-0 | Fluoranthene | 2600 | 42 | 19 | ug/kg | |
| 86-73-7 | Fluorene | 269 | 42 | 19 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 84 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 42 | 17 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 420 | 17 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 21 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 881 | 42 | 20 | ug/kg | |
| 78-59-1 | Isophorone | ND | 84 | 9.0 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 76.1 | 42 | 9.5 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 210 | 10 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 210 | 11 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 210 | 11 | ug/kg | |
| 91-20-3 | Naphthalene | 201 | 42 | 12 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 84 | 16 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 84 | 12 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 15 | ug/kg | |
| 85-01-8 | Phenanthrene | 1720 | 42 | 14 | ug/kg | |
| 129-00-0 | Pyrene | 2790 | 42 | 14 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 210 | 11 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 55% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-05-6.5-8.5 | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35782-1 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 76.4 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105030.D | 1 | 12/11/21 01:30 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 4.2 | 2.1 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 66% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | |
| Lab Sample ID: | JD35782-1 | Date Sampled: 11/19/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | SW846 8151A SW846 3546 | Percent Solids: 76.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134389.D | 4 | 12/04/21 02:11 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.1 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 81 | 36 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 16 | 9.2 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 16 | 8.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 9% ^b | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 5% ^b | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-05-6.5-8.5 | |
| Lab Sample ID: JD35782-1 | Date Sampled: 11/19/21 |
| Matrix: SO - Soil | Date Received: 11/23/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 76.4 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171586.D | 1 | 11/30/21 09:40 | CP | 11/27/21 10:05 | OP36830 | G1G5918 |
| Run #2 ^a | 1G171668.D | 5 | 12/01/21 23:35 | CP | 11/27/21 10:05 | OP36830 | G1G5922 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 10.0 ml |
| Run #2 | 15.5 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.84 | 0.70 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.84 | 0.69 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.84 | 0.76 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.84 | 0.81 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^b | 2.8 | 0.84 | 0.62 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.84 | 0.68 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^b | 2.5 | 0.84 | 0.38 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.84 | 0.58 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 20.2 | 0.84 | 0.78 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 5.8 | 0.84 | 0.74 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^b | 2.2 | 0.84 | 0.75 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.84 | 0.66 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.84 | 0.66 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.84 | 0.48 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.84 | 0.49 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.84 | 0.53 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.84 | 0.73 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.84 | 0.59 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.7 | 0.67 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.84 | 0.61 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 21 | 20 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 67% | 71% | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 65% | 71% | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 82% | 159% | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 133% | 189% ^c | 10-179% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | |
| Lab Sample ID: | JD35782-1 | Date Sampled: 11/19/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 76.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475128.D | 1 | 12/02/21 04:11 | TL | 11/27/21 10:05 | OP36831 | GXX7671 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 42 | 20 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 42 | 26 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 42 | 27 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 42 | 17 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 42 | 38 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 42 | 23 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 42 | 18 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 42 | 18 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 42 | 28 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 70% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 83% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 92% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 85% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-1 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 76.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 5910 | 44 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Antimony | < 1.7 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Arsenic | 4.7 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Barium | 658 | 17 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Beryllium | 0.44 | 0.17 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cadmium | 0.54 | 0.44 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Calcium | 24400 | 870 | mg/kg | 2 | 12/01/21 | 12/09/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Chromium | 13.6 | 0.87 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cobalt | < 4.4 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Copper | 39.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Iron | 11400 | 44 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Lead | 363 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Magnesium | 4160 | 440 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Manganese | 256 | 1.3 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Mercury | 0.33 | 0.017 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 13.3 | 3.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Potassium | 1110 | 870 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Selenium | < 1.7 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Silver | 0.80 | 0.44 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Sodium | < 870 | 870 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Thallium | < 0.87 | 0.87 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Vanadium | 21.3 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Zinc | 370 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA51494
- (2) Instrument QC Batch: MA51527
- (3) Instrument QC Batch: MA51569
- (4) Prep QC Batch: MP30055
- (5) Prep QC Batch: MP30089

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-05-6.5-8.5 Lab Sample ID: JD35782-1 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/23/21 Percent Solids: 76.4 |
|---|--|

4.1

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.30 | 0.30 | mg/kg | 1 | 12/08/21 21:35 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 76.4 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-05-6.5-8.5 | |
| Lab Sample ID: | JD35782-1A | Date Sampled: 11/19/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 76.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50964.D | 1 | 12/21/21 12:14 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.03 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.3 | 0.49 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.64 | 0.34 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.64 | 0.32 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.64 | 0.32 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.64 | 0.32 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.64 | 0.32 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.64 | 0.32 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.64 | 0.32 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.64 | 0.32 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.3 | 0.64 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.3 | 0.64 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.3 | 0.32 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.3 | 0.32 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-05-6.5-8.5 | | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35782-1A | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 76.4 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 95% | | 40-140% |
| | 13C5-PFPeA | 97% | | 50-150% |
| | 13C5-PFHxA | 98% | | 50-150% |
| | 13C4-PFHpA | 98% | | 50-150% |
| | 13C8-PFOA | 98% | | 50-150% |
| | 13C9-PFNA | 99% | | 50-150% |
| | 13C6-PFDA | 100% | | 50-150% |
| | 13C7-PFUnDA | 91% | | 40-140% |
| | 13C2-PFDoDA | 81% | | 40-140% |
| | 13C2-PFTeDA | 94% | | 30-130% |
| | 13C3-PFBS | 97% | | 50-150% |
| | 13C3-PFHxS | 99% | | 50-150% |
| | 13C8-PFOS | 91% | | 50-150% |
| | 13C8-FOSA | 88% | | 30-130% |
| | d3-MeFOSAA | 122% | | 40-140% |
| | d5-EtFOSAA | 133% | | 40-140% |
| | 13C2-6:2FTS | 93% | | 50-150% |
| | 13C2-8:2FTS | 102% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | |
|--|-------------------------|
| Client Sample ID: S DUP-01 | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35782-2 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 86.4 |
| Method: SW846 8260D SW846 5035 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #2 | I240195.D | 1 | 11/29/21 17:27 | PS | 11/24/21 08:00 | n/a | VI9766 |

| Run #1 | Initial Weight |
|--------|----------------|
| Run #2 | 6.2 g |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 20.7 | 9.3 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.42 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.71 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.3 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | 1.2 | 1.9 | 0.50 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane ^a | ND | 4.7 | 0.55 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.48 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.61 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.52 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.93 | 0.39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene ^b | ND | 0.93 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene ^b | ND | 0.93 | 0.46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.68 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.93 | 0.46 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.93 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.93 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.93 | 0.78 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.93 | 0.57 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.44 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.93 | 0.42 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | S DUP-01 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-2 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176765.D | 1 | 12/03/21 07:39 | CS | 11/29/21 09:30 | OP36836 | EM7598 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.5 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 98 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 144 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 157 | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 180 | 7.9 | ug/kg | |
| 120-12-7 | Anthracene | 360 | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 861 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 746 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 942 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 432 | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 387 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 16.1 | 73 | 5.0 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 108 | 73 | 5.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | S DUP-01 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-2 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 926 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 139 | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | 87.5 | 73 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1170 | 73 | 8.6 | ug/kg | |
| 206-44-0 | Fluoranthene | 1790 | 37 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 175 | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.3 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 558 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 40.5 | 37 | 8.3 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 180 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.5 | ug/kg | |
| 91-20-3 | Naphthalene | 93.3 | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 1190 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 1850 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 46% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: S DUP-01 Lab Sample ID: JD35782-2 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/23/21 Percent Solids: 86.4 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 47% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 74% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 61% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 58% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q | |
|------------|------------------------------------|-------|------------|-------|-------|---|
| 13798-23-7 | system artifact/aldol-condensation | 3.30 | 160 | ug/kg | J | |
| | Sulfur | 8.42 | 190 | ug/kg | JN | |
| | Phenanthrene methyl | 11.60 | 210 | ug/kg | J | |
| | Phenanthrene methyl | 11.65 | 260 | ug/kg | J | |
| | unknown | 11.79 | 400 | ug/kg | J | |
| 638-53-9 | Tridecanoic acid | 11.95 | 230 | ug/kg | JN | |
| | Naphthalene -phenyl | 12.21 | 270 | ug/kg | J | |
| 781-43-1 | 9,10-Dimethylanthracene | 12.70 | 180 | ug/kg | JN | |
| | unknown | 12.87 | 210 | ug/kg | J | |
| | unknown | 13.14 | 300 | ug/kg | J | |
| | Pyrene methyl | 14.08 | 230 | ug/kg | J | |
| | Pyrene methyl | 14.22 | 200 | ug/kg | J | |
| | Pyrene methyl | 14.27 | 160 | ug/kg | J | |
| | unknown | 15.36 | 190 | ug/kg | J | |
| | alkane | 17.17 | 220 | ug/kg | J | |
| | unknown PAH substance | 17.96 | 290 | ug/kg | J | |
| | unknown PAH substance | 18.24 | 570 | ug/kg | J | |
| | unknown | 18.92 | 240 | ug/kg | J | |
| | unknown | 20.82 | 170 | ug/kg | J | |
| | Total TIC, Semi-Volatile | | | 4520 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--|
| Client Sample ID: S DUP-01 Lab Sample ID: JD35782-2 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/23/21 Percent Solids: 86.4 |
|---|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105031.D | 1 | 12/11/21 01:51 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 57% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 57% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 49% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | |
|--|--|
| Client Sample ID: S DUP-01 Lab Sample ID: JD35782-2 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/23/21 Percent Solids: 86.4 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134390.D | 4 | 12/04/21 02:38 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.7 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 69 | 31 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 14 | 7.8 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 14 | 6.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 7% ^b | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 3% ^b | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | S DUP-01 | Date Sampled: | 11/19/21 |
| Lab Sample ID: | JD35782-2 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.4 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171588.D | 1 | 11/30/21 10:16 | CP | 11/27/21 10:05 | OP36830 | G1G5918 |
| Run #2 ^a | 1G171669.D | 5 | 12/01/21 23:53 | CP | 11/27/21 10:05 | OP36830 | G1G5922 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 10.0 ml |
| Run #2 | 15.2 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^b | 1.5 | 0.76 | 0.63 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.76 | 0.62 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.76 | 0.69 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.76 | 0.73 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^b | 7.9 | 0.76 | 0.56 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 6.9 | 0.76 | 0.61 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^b | 4.9 | 0.76 | 0.34 | ug/kg | |
| 60-57-1 | Dieldrin ^b | 1.6 | 0.76 | 0.52 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 29.5 | 0.76 | 0.70 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 9.0 | 0.76 | 0.67 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^b | 4.5 | 0.76 | 0.67 | ug/kg | |
| 72-20-8 | Endrin ^b | 0.92 | 0.76 | 0.59 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.76 | 0.59 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.76 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.76 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II | 4.8 | 0.76 | 0.48 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.76 | 0.66 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.76 | 0.53 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.61 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.76 | 0.55 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 77% | 107% | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 80% | 86% | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 88% | 173% | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 278% ^c | 275% ^c | 10-179% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to matrix interference.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: S DUP-01 Lab Sample ID: JD35782-2 Matrix: SO - Soil Method: SW846 8082A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/23/21 Percent Solids: 86.4 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475129.D | 1 | 12/02/21 04:29 | TL | 11/27/21 10:05 | OP36831 | GXX7671 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 24 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 16 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 84% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 104% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 106% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

Client Sample ID: S DUP-01

Lab Sample ID: JD35782-2

Matrix: SO - Soil

Date Sampled: 11/19/21

Date Received: 11/23/21

Percent Solids: 86.4

Project: 2nd Avenue and 33-39th Street, Brooklyn, NY

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|---------------------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 5420 | 56 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Arsenic | 4.3 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Barium | 812 | 22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Beryllium | 0.43 | 0.22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cadmium | 0.65 | 0.56 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Calcium | 32000 | 1100 | mg/kg | 2 | 12/01/21 | 12/10/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Chromium | 12.4 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cobalt | < 5.6 | 5.6 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Copper | 29.2 | 2.8 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Iron | 11100 | 56 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Lead | 337 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Magnesium | 3740 | 560 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Manganese | 255 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Mercury | 0.34 | 0.030 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 12.5 | 4.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Silver ^a | < 1.1 | 1.1 | mg/kg | 2 | 12/01/21 | 12/10/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Vanadium | 20.4 | 5.6 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Zinc | 422 | 5.6 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |

(1) Instrument QC Batch: MA51494

(2) Instrument QC Batch: MA51527

(3) Instrument QC Batch: MA51586

(4) Prep QC Batch: MP30055

(5) Prep QC Batch: MP30089

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: S DUP-01 | Date Sampled: 11/19/21 |
| Lab Sample ID: JD35782-2 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 86.4 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.3

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.28 | 0.28 | mg/kg | 1 | 12/08/21 21:37 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 86.4 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | |
|--|--|
| Client Sample ID: S DUP-01 Lab Sample ID: JD35782-2A Matrix: SO - Soil Method: EPA 537M BY ID IN HOUSE Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/19/21 Date Received: 11/23/21 Percent Solids: 86.4 |
|--|--|

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 71% | | 40-140% |
| | 13C5-PFPeA | 73% | | 50-150% |
| | 13C5-PFHxA | 74% | | 50-150% |
| | 13C4-PFHpA | 74% | | 50-150% |
| | 13C8-PFOA | 73% | | 50-150% |
| | 13C9-PFNA | 74% | | 50-150% |
| | 13C6-PFDA | 76% | | 50-150% |
| | 13C7-PFUnDA | 74% | | 40-140% |
| | 13C2-PFDoDA | 62% | | 40-140% |
| | 13C2-PFTeDA | 71% | | 30-130% |
| | 13C3-PFBS | 73% | | 50-150% |
| | 13C3-PFHxS | 73% | | 50-150% |
| | 13C8-PFOS | 69% | | 50-150% |
| | 13C8-FOSA | 57% | | 30-130% |
| | d3-MeFOSAA | 90% | | 40-140% |
| | d5-EtFOSAA | 98% | | 40-140% |
| | 13C2-6:2FTS | 71% | | 50-150% |
| | 13C2-8:2FTS | 78% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-3 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #2 | I240193.D | 1 | 11/29/21 16:46 | PS | 11/24/21 08:00 | n/a | VI9766 |

| Run #1 | Initial Weight |
|--------|----------------|
| Run #2 | 6.5 g |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 10.2 | 8.6 | 3.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.43 | 0.39 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.3 | 0.48 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.7 | 0.37 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.3 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.3 | 0.65 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.6 | 2.1 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.7 | 0.46 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.7 | 0.53 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.7 | 0.39 | ug/kg | |
| 75-00-3 | Chloroethane ^a | ND | 4.3 | 0.51 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.7 | 0.44 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.3 | 1.7 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.7 | 0.56 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | 0.59 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.7 | 0.48 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.86 | 0.36 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene ^b | ND | 0.86 | 0.47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene ^b | ND | 0.86 | 0.42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.86 | 0.42 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.3 | 0.62 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.86 | 0.42 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.86 | 0.40 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.86 | 0.56 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.86 | 0.72 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.86 | 0.52 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.7 | 0.41 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.7 | 0.41 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.7 | 0.39 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.86 | 0.39 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.3 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.3 | 1.8 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-3 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.7 | 1.2 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.3 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.7 | 0.75 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.86 | 0.40 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.3 | 1.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.3 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.7 | 0.34 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.7 | 0.51 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.7 | 0.50 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.86 | 0.45 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.3 | 2.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.3 | 2.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.7 | 0.41 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.7 | 0.47 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.86 | 0.65 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane ^c | ND | 4.3 | 0.59 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.7 | 0.41 | ug/kg | |
| | m,p-Xylene | ND | 0.86 | 0.77 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.86 | 0.39 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.86 | 0.39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 99% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

(b) This compound in blank spike is outside in house QC limits bias high.

(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-3 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176757.D | 1 | 12/03/21 03:40 | CS | 11/29/21 09:30 | OP36836 | EM7598 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | ND | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 33.5 | 36 | 10 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | 40.0 | 36 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 44.6 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 22.2 | 36 | 18 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | 20.1 | 36 | 17 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 73 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 73 | 5.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-3 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 30.8 | 36 | 11 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 73 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 73 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | 52.6 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 28.7 | 36 | 17 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 17.2 | 36 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 59.8 | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 47% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-06-5.0-7.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-3 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 89.8 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 49% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 84% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 61% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 58% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|------------|-------|---|
| | Unknown | 14.96 | 160 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 160 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-06-5.0-7.0 Lab Sample ID: JD35782-3 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/22/21 Date Received: 11/23/21 Percent Solids: 89.8 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105029.D | 1 | 12/11/21 01:10 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 57% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 61% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 68% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.5

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-06-5.0-7.0 Lab Sample ID: JD35782-3 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/22/21 Date Received: 11/23/21 Percent Solids: 89.8 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134361.D | 1 | 12/02/21 06:20 | RK | 11/30/21 09:50 | OP36859 | G3G4901 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.3 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.1 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.6 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T ^a | ND | 3.6 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 16% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 18% | | 10-125% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-06-5.0-7.0 | |
| Lab Sample ID: JD35782-3 | Date Sampled: 11/22/21 |
| Matrix: SO - Soil | Date Received: 11/23/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 89.8 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171587.D | 1 | 11/30/21 09:58 | CP | 11/27/21 10:05 | OP36830 | G1G5918 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.70 | 0.57 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.70 | 0.57 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.70 | 0.63 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.70 | 0.67 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.70 | 0.51 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.70 | 0.56 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.70 | 0.32 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.70 | 0.48 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.70 | 0.64 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.70 | 0.61 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.70 | 0.62 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.70 | 0.54 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.70 | 0.54 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.70 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.70 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.70 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.70 | 0.60 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.70 | 0.49 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.55 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.70 | 0.50 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 71% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 66% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 60% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 77% | | 10-179% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | |
| Lab Sample ID: | JD35782-3 | Date Sampled: 11/22/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 89.8 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475134.D | 1 | 12/02/21 05:56 | TL | 11/27/21 10:05 | OP36831 | GXX7671 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 35 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 77% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 77% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 79% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 71% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-3 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 4600 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 37.1 | 22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.53 | 0.22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 2290 | 550 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 11.7 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | < 5.5 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 10.5 | 2.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 8890 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 15.8 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 2240 | 550 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 170 | 1.6 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.070 | 0.031 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB | SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 16.9 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Silver | < 0.55 | 0.55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 17.0 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 32.4 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51494

(2) Instrument QC Batch: MA51527

(3) Prep QC Batch: MP30055

(4) Prep QC Batch: MP30089

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-06-5.0-7.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-3 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 89.8 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.22 | 0.22 | mg/kg | 1 | 12/08/21 21:41 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.8 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06-5.0-7.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-3A | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50786.D | 1 | 12/18/21 13:56 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q712 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.10 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.40 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.53 | 0.28 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-06-5.0-7.0 Lab Sample ID: JD35782-3A Matrix: SO - Soil Method: EPA 537M BY ID IN HOUSE Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/22/21 Date Received: 11/23/21 Percent Solids: 89.8 |
|--|--|

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 95% | | 40-140% |
| | 13C5-PFPeA | 98% | | 50-150% |
| | 13C5-PFHxA | 101% | | 50-150% |
| | 13C4-PFHpA | 103% | | 50-150% |
| | 13C8-PFOA | 102% | | 50-150% |
| | 13C9-PFNA | 103% | | 50-150% |
| | 13C6-PFDA | 109% | | 50-150% |
| | 13C7-PFUnDA | 107% | | 40-140% |
| | 13C2-PFDoDA | 112% | | 40-140% |
| | 13C2-PFTeDA | 117% | | 30-130% |
| | 13C3-PFBS | 99% | | 50-150% |
| | 13C3-PFHxS | 100% | | 50-150% |
| | 13C8-PFOS | 100% | | 50-150% |
| | 13C8-FOSA | 68% | | 30-130% |
| | d3-MeFOSAA | 126% | | 40-140% |
| | d5-EtFOSAA | 127% | | 40-140% |
| | 13C2-6:2FTS | 97% | | 50-150% |
| | 13C2-8:2FTS | 100% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.6

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240194.D | 1 | 11/29/21 17:07 | PS | 11/24/21 08:00 | n/a | VI9766 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.3 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 8.9 | 11 | 4.4 | ug/kg | J |
| 71-43-2 | Benzene | 3.8 | 0.53 | 0.48 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.3 | 0.60 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.1 | 0.46 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.3 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.3 | 0.81 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.6 | ug/kg | |
| 75-15-0 | Carbon disulfide | 0.68 | 2.1 | 0.57 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 2.1 | 0.66 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.1 | 0.49 | ug/kg | |
| 75-00-3 | Chloroethane ^a | ND | 5.3 | 0.63 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.1 | 0.55 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.3 | 2.1 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.1 | 0.70 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.1 | 0.74 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.1 | 0.60 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene ^b | ND | 1.1 | 0.58 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene ^b | ND | 1.1 | 0.53 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.53 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.3 | 0.77 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.53 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.50 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.1 | 0.70 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.89 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.65 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.1 | 0.50 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.1 | 0.51 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.1 | 0.49 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.48 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.3 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.3 | 2.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.1 | 1.5 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.3 | 1.5 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.1 | 0.93 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.50 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.3 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.3 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.1 | 0.43 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.1 | 0.64 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.1 | 0.62 | ug/kg | |
| 108-88-3 | Toluene | 1.5 | 1.1 | 0.56 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.3 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.3 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.1 | 0.51 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.1 | 0.59 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.81 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane ^c | ND | 5.3 | 0.73 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.1 | 0.51 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 0.95 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.49 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.49 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 97% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

(b) This compound in blank spike is outside in house QC limits bias high.

(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176767.D | 1 | 12/03/21 08:37 | CS | 11/29/21 09:30 | OP36836 | EM7598 |
| Run #2 | M176785.D | 2 | 12/04/21 06:21 | CS | 11/29/21 09:30 | OP36836 | EM7599 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | 30.1 g | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 75 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 67 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 75 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 75 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 75 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 307 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 203 | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone ^b | 23.5 | 190 | 8.1 | ug/kg | J |
| 120-12-7 | Anthracene | 790 | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 75 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 2120 | 37 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1850 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 2370 | 37 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 1050 | 37 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 902 | 37 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 75 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 75 | 9.1 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 37.9 | 75 | 5.1 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.3 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 75 | 8.9 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 273 | 75 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|-------------------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 75 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 2330 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 75 | 8.0 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 75 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 75 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 75 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 37 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 75 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 338 | 37 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | 223 | 75 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 75 | 6.1 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 75 | 9.3 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 75 | 8.0 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 75 | 6.7 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 173 | 75 | 8.8 | ug/kg | |
| 206-44-0 | Fluoranthene | 3770 ^c | 75 | 33 | ug/kg | |
| 86-73-7 | Fluorene | 243 | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 75 | 9.5 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1350 | 37 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 75 | 8.0 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 139 | 37 | 8.5 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 190 | 8.8 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.4 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.7 | ug/kg | |
| 91-20-3 | Naphthalene | 245 | 37 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 75 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 75 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 2680 | 37 | 13 | ug/kg | |
| 129-00-0 | Pyrene | 3930 ^c | 75 | 24 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 54% | 51% | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 56% | 56% | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | 77% | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 74% | 67% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | 64% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 68% | 63% | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | system artifact/aldol-condensation | 3.30 | 1200 | ug/kg | J |
| | C3 alkyl benzene | 4.43 | 250 | ug/kg | J |
| 132-65-0 | Dibenzothiophene | 10.42 | 210 | ug/kg | JN |
| | Phenanthrene methyl | 11.61 | 490 | ug/kg | J |
| | Phenanthrene methyl | 11.65 | 610 | ug/kg | J |
| | Anthracene methyl | 11.74 | 240 | ug/kg | J |
| | unknown | 11.79 | 810 | ug/kg | J |
| | Anthracene methyl | 11.85 | 390 | ug/kg | J |
| | Naphthalene phenyl | 12.22 | 660 | ug/kg | J |
| | Phenanthrene dimethyl | 12.71 | 420 | ug/kg | J |
| | Phenanthrene dimethyl | 12.76 | 420 | ug/kg | J |
| | Phenanthrene dimethyl | 12.82 | 420 | ug/kg | J |
| | Phenanthrene dimethyl | 12.88 | 510 | ug/kg | J |
| | unknown | 13.07 | 260 | ug/kg | J |
| | Pyrene methyl | 14.09 | 280 | ug/kg | J |
| | Pyrene methyl | 14.22 | 230 | ug/kg | J |
| | unknown | 15.10 | 210 | ug/kg | J |
| | Benzo[b]naphtho[-d]thiophene | 15.30 | 210 | ug/kg | J |
| | unknown | 15.37 | 290 | ug/kg | J |
| | alkane | 17.18 | 450 | ug/kg | J |
| | unknown PAH substance | 17.97 | 620 | ug/kg | J |
| | unknown PAH substance | 18.26 | 1400 | ug/kg | J |
| | unknown | 19.37 | 300 | ug/kg | J |
| | unknown | 19.84 | 580 | ug/kg | J |
| | unknown | 19.98 | 270 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 10530 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | |
| Lab Sample ID: | JD35782-4 | Date Sampled: 11/22/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 88.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105032.D | 1 | 12/11/21 02:11 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 49% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 49% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 39% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-07-6.0-8.0 | |
| Lab Sample ID: JD35782-4 | Date Sampled: 11/22/21 |
| Matrix: SO - Soil | Date Received: 11/23/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 88.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134391.D | 4 | 12/04/21 03:06 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 74 | 33 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 15 | 8.4 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 15 | 7.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 10% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 4% ^b | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171589.D | 1 | 11/30/21 10:34 | CP | 11/27/21 10:05 | OP36830 | G1G5918 |
| Run #2 ^a | 1G171670.D | 5 | 12/02/21 00:11 | CP | 11/27/21 10:05 | OP36830 | G1G5922 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 10.0 ml |
| Run #2 | 16.2 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^b | 2.1 | 0.70 | 0.57 | ug/kg | |
| 319-84-6 | alpha-BHC ^b | 1.1 | 0.70 | 0.57 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.70 | 0.63 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.70 | 0.67 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^b | 9.5 | 0.70 | 0.51 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 21.3 | 0.70 | 0.56 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | 23.5 | 0.70 | 0.32 | ug/kg | |
| 60-57-1 | Dieldrin ^b | 1.0 | 0.70 | 0.48 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^b | 5.7 | 0.70 | 0.64 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 4.1 | 0.70 | 0.61 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^b | 4.2 | 0.70 | 0.62 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.70 | 0.54 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.70 | 0.54 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.70 | 0.40 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.70 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.70 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.70 | 0.60 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | 1.5 | 0.70 | 0.49 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.55 | ug/kg | |
| 53494-70-5 | Endrin ketone ^b | 3.3 | 0.70 | 0.50 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 76% | 79% | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 72% | 76% | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 104% | 117% | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 259% ^c | 303% ^c | 10-179% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-07-6.0-8.0 | |
| Lab Sample ID: JD35782-4 | Date Sampled: 11/22/21 |
| Matrix: SO - Soil | Date Received: 11/23/21 |
| Method: SW846 8082A SW846 3546 | Percent Solids: 88.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475135.D | 1 | 12/02/21 06:13 | TL | 11/27/21 10:05 | OP36831 | GXX7671 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 35 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 75% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 82% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 96% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 86% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-07-6.0-8.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-4 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 88.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|---------------------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 4920 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Arsenic | 5.7 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Barium | 92.5 | 22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Beryllium | 0.44 | 0.22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Calcium | 65100 | 2700 | mg/kg | 5 | 12/01/21 | 12/10/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Chromium | 10.5 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cobalt | < 5.5 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Copper | 32.7 | 2.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Iron | 17000 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Lead | 169 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Magnesium | 3430 | 550 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Manganese | 248 | 1.6 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Mercury | 0.16 | 0.031 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 17.7 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Silver ^a | < 2.7 | 2.7 | mg/kg | 5 | 12/01/21 | 12/10/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Vanadium | 17.4 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Zinc | 115 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND SW846 6010D ² | SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA51494
- (2) Instrument QC Batch: MA51527
- (3) Instrument QC Batch: MA51586
- (4) Prep QC Batch: MP30055
- (5) Prep QC Batch: MP30089

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

4.7

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-07-6.0-8.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-4 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 88.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.7

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.23 | 0.23 | mg/kg | 1 | 12/08/21 21:42 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 88.6 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-07-6.0-8.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-4A | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.6 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50937.D | 1 | 12/21/21 04:44 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.04 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-07-6.0-8.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-4A | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 88.6 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 81% | | 40-140% |
| | 13C5-PFPeA | 82% | | 50-150% |
| | 13C5-PFHxA | 82% | | 50-150% |
| | 13C4-PFHpA | 82% | | 50-150% |
| | 13C8-PFOA | 83% | | 50-150% |
| | 13C9-PFNA | 85% | | 50-150% |
| | 13C6-PFDA | 86% | | 50-150% |
| | 13C7-PFUnDA | 79% | | 40-140% |
| | 13C2-PFDoDA | 72% | | 40-140% |
| | 13C2-PFTeDA | 79% | | 30-130% |
| | 13C3-PFBS | 81% | | 50-150% |
| | 13C3-PFHxS | 84% | | 50-150% |
| | 13C8-PFOS | 80% | | 50-150% |
| | 13C8-FOSA | 64% | | 30-130% |
| | d3-MeFOSAA | 92% | | 40-140% |
| | d5-EtFOSAA | 104% | | 40-140% |
| | 13C2-6:2FTS | 79% | | 50-150% |
| | 13C2-8:2FTS | 86% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-5 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240196.D | 1 | 11/29/21 17:47 | PS | 11/24/21 08:00 | n/a | VI9766 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 2.7 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 23.2 | 20 | 8.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.99 | 0.90 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 9.9 | 1.1 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 4.0 | 0.85 | ug/kg | |
| 75-25-2 | Bromoform | ND | 9.9 | 2.7 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 9.9 | 1.5 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 20 | 4.8 | ug/kg | |
| 75-15-0 | Carbon disulfide | 1.9 | 4.0 | 1.1 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 4.0 | 1.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.0 | 0.91 | ug/kg | |
| 75-00-3 | Chloroethane ^a | ND | 9.9 | 1.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.0 | 1.0 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 9.9 | 3.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 4.0 | 1.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.0 | 1.4 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 4.0 | 1.1 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.83 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene ^b | ND | 2.0 | 1.1 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene ^b | ND | 2.0 | 0.98 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.0 | 0.98 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 9.9 | 1.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.0 | 0.98 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 0.93 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.0 | 1.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 2.0 | 1.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 2.0 | 1.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.0 | 0.93 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.0 | 0.94 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.0 | 0.90 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 0.90 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 9.9 | 5.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 9.9 | 4.2 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-5 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 4.0 | 2.8 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 9.9 | 2.7 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 4.0 | 1.7 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 2.0 | 0.93 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 9.9 | 4.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 9.9 | 5.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.0 | 0.79 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.0 | 1.2 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 4.0 | 1.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 2.0 | 1.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 9.9 | 4.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 9.9 | 4.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 4.0 | 0.95 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.0 | 1.1 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 2.0 | 1.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane ^c | ND | 9.9 | 1.4 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.0 | 0.95 | ug/kg | |
| | m,p-Xylene | ND | 2.0 | 1.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 2.0 | 0.91 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 2.0 | 0.91 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|--|-------|------------|-------|---|
| | C4 alkyl benzene | 10.54 | 210 | ug/kg | J |
| | Naphthalene, decahydro-methyl- isomer | 10.59 | 170 | ug/kg | J |
| | Naphthalene, decahydro-methyl- isomer | 10.76 | 210 | ug/kg | J |
| | C4 alkyl benzene | 10.95 | 380 | ug/kg | J |
| | 1H-Indene-dihydro-methyl- isomer | 10.99 | 250 | ug/kg | J |
| | C5 alkyl benzene | 11.22 | 350 | ug/kg | J |
| | unknown | 11.31 | 250 | ug/kg | J |
| | alkane | 11.46 | 450 | ug/kg | J |
| | C5 alkyl benzene | 11.52 | 170 | ug/kg | J |
| | Naphthalene, tetrahydro-methyl- isomer | 11.69 | 300 | ug/kg | J |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-08-7.0-9.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-5 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 93.7 |
| Method: SW846 8260D SW846 5035 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|-------------|--------------|----------|
| | unknown | 11.79 | 290 | ug/kg | J |
| | 1H-indene-dihydro-dimethyl- isomer | 11.93 | 240 | ug/kg | J |
| | cycloalkane | 12.54 | 290 | ug/kg | J |
| 91-57-6 | Naphthalene, 2-methyl- | 12.87 | 190 | ug/kg | JN |
| | Naphthalene, methyl- isomer | 13.12 | 210 | ug/kg | J |
| | Total TIC, Volatile | | 3960 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) This compound in blank spike is outside in house QC limits bias high.
- (c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-5 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176760.D | 1 | 12/03/21 05:08 | CS | 11/29/21 09:30 | OP36836 | EM7598 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 71 | 17 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 30 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 63 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 38 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 71 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 71 | 29 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 23 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 350 | 94 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 33 | ug/kg | |
| 108-95-2 | Phenol | ND | 71 | 18 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 23 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 26 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | 179 | 35 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 35 | 18 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 180 | 7.6 | ug/kg | |
| 120-12-7 | Anthracene | 169 | 35 | 22 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 71 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 106 | 35 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 107 | 35 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 121 | 35 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 63.1 | 35 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 46.1 | 35 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 71 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 71 | 8.6 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 26.8 | 71 | 4.8 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 8.8 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 71 | 8.4 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 71 | 5.1 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-5 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 71 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 124 | 35 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 71 | 7.6 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 71 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 71 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 71 | 11 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 35 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 35 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 71 | 29 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 35 | 23 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 19.2 | 35 | 16 | ug/kg | J |
| 132-64-9 | Dibenzofuran | 173 | 71 | 14 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 71 | 5.8 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 71 | 8.8 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 71 | 7.5 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 71 | 6.3 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 111 | 71 | 8.3 | ug/kg | |
| 206-44-0 | Fluoranthene | 262 | 35 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 339 | 35 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 71 | 8.9 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 35 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 350 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 17 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 77.7 | 35 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 71 | 7.6 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 1050 | 35 | 8.0 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 180 | 8.3 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 8.8 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 91-20-3 | Naphthalene | 70.0 | 35 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 71 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 71 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 943 | 35 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 267 | 35 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 58% | | 10-109% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-08-7.0-9.0 | |
| Lab Sample ID: JD35782-5 | Date Sampled: 11/22/21 |
| Matrix: SO - Soil | Date Received: 11/23/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 93.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 59% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 73% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 84% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 59% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 57% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|------------|-------|----|
| | Naphthalene decahydro-methyl | 5.31 | 1100 | ug/kg | J |
| | Cyclohexane alkyl | 6.00 | 1100 | ug/kg | J |
| | alkane | 6.16 | 2800 | ug/kg | J |
| | alkane | 6.38 | 1000 | ug/kg | J |
| 90-12-0 | Naphthalene, 1-methyl- | 6.62 | 1100 | ug/kg | JN |
| | unknown | 7.08 | 1000 | ug/kg | J |
| | Naphthalene ethyl | 7.26 | 1900 | ug/kg | J |
| | Naphthalene dimethyl | 7.38 | 2100 | ug/kg | J |
| | Naphthalene dimethyl | 7.48 | 3100 | ug/kg | J |
| | Naphthalene dimethyl | 7.53 | 2000 | ug/kg | J |
| | unknown | 7.55 | 1500 | ug/kg | J |
| | Cyclohexane alkyl | 7.63 | 1300 | ug/kg | J |
| | alkane | 7.67 | 5100 | ug/kg | J |
| | Naphthalene dimethyl | 7.78 | 1500 | ug/kg | J |
| | unknown | 7.86 | 2700 | ug/kg | J |
| | Naphthalene trimethyl | 8.19 | 1500 | ug/kg | J |
| | Naphthalene trimethyl | 8.27 | 1000 | ug/kg | J |
| | Naphthalene trimethyl | 8.43 | 1500 | ug/kg | J |
| | Naphthalene trimethyl | 8.56 | 3100 | ug/kg | J |
| | alkane | 9.30 | 4300 | ug/kg | J |
| | Cyclohexane alkyl | 9.45 | 2000 | ug/kg | J |
| | unknown | 9.62 | 1400 | ug/kg | J |
| | alkane | 9.81 | 7300 | ug/kg | J |
| | 9H-Fluorene methyl | 9.98 | 1200 | ug/kg | J |
| | alkane | 10.20 | 1300 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 53900 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-08-7.0-9.0 | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-5 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 93.7 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105033.D | 1 | 12/11/21 02:32 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.5 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 81% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 65% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 63% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-08-7.0-9.0 Lab Sample ID: JD35782-5 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/22/21 Date Received: 11/23/21 Percent Solids: 93.7 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134392.D | 4 | 12/04/21 03:33 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 69 | 31 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 14 | 7.8 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 14 | 6.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 7% ^b | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 7% ^b | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-5 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.7 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171590.D | 1 | 11/30/21 10:53 | CP | 11/27/21 10:05 | OP36830 | G1G5918 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.66 | 0.54 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.66 | 0.54 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.66 | 0.60 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.66 | 0.63 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.66 | 0.49 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.66 | 0.53 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.66 | 0.30 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.66 | 0.45 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.66 | 0.60 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 0.82 | 0.66 | 0.58 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.66 | 0.58 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.66 | 0.51 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.66 | 0.51 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.66 | 0.37 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.66 | 0.38 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.66 | 0.41 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.66 | 0.57 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.66 | 0.46 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.52 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.66 | 0.48 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 16 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 68% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 81% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 98% | | 10-179% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|-------------------------|
| Client Sample ID: TT-SB-08-7.0-9.0 | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-5 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 93.7 |
| Method: SW846 8082A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475289.D | 1 | 12/07/21 03:27 | TL | 11/27/21 10:05 | OP36831 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 33 | 15 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 33 | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 33 | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 33 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 33 | 29 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 33 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 33 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 33 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 33 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 64% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 78% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 76% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 85% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | Date Sampled: | 11/22/21 |
| Lab Sample ID: | JD35782-5 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|---------------------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 8770 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Arsenic | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Barium | 85.1 | 22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Beryllium | 0.81 | 0.22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Calcium | 30700 | 1100 | mg/kg | 2 | 12/01/21 | 12/10/21 | ND | SW846 6010D ³ | SW846 3050B ⁵ |
| Chromium | 17.6 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Cobalt | 12.8 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Copper | 44.4 | 2.8 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Iron | 16800 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Lead | 31.8 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Magnesium | 17900 | 550 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Manganese | 313 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Mercury | 0.28 | 0.035 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB | SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 23.6 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Potassium | 3080 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Silver ^a | < 1.1 | 1.1 | mg/kg | 2 | 12/01/21 | 12/10/21 | ND | SW846 6010D ³ | SW846 3050B ⁵ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Vanadium | 30.3 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |
| Zinc | 230 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁵ |

(1) Instrument QC Batch: MA51494

(2) Instrument QC Batch: MA51527

(3) Instrument QC Batch: MA51586

(4) Prep QC Batch: MP30055

(5) Prep QC Batch: MP30089

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-08-7.0-9.0 Lab Sample ID: JD35782-5 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/22/21 Date Received: 11/23/21 Percent Solids: 93.7 |
|---|--|

4.9

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.21 | 0.21 | mg/kg | 1 | 12/08/21 21:43 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 93.7 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-08-7.0-9.0 | |
| Lab Sample ID: | JD35782-5A | Date Sampled: 11/22/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 93.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50966.D | 1 | 12/21/21 12:47 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.41 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.53 | 0.28 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-08-7.0-9.0 | | Date Sampled: 11/22/21 |
| Lab Sample ID: JD35782-5A | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 93.7 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.10

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 92% | | 40-140% |
| | 13C5-PFPeA | 93% | | 50-150% |
| | 13C5-PFHxA | 94% | | 50-150% |
| | 13C4-PFHpA | 97% | | 50-150% |
| | 13C8-PFOA | 96% | | 50-150% |
| | 13C9-PFNA | 98% | | 50-150% |
| | 13C6-PFDA | 100% | | 50-150% |
| | 13C7-PFUnDA | 96% | | 40-140% |
| | 13C2-PFDoDA | 85% | | 40-140% |
| | 13C2-PFTeDA | 91% | | 30-130% |
| | 13C3-PFBS | 94% | | 50-150% |
| | 13C3-PFHxS | 95% | | 50-150% |
| | 13C8-PFOS | 92% | | 50-150% |
| | 13C8-FOSA | 102% | | 30-130% |
| | d3-MeFOSAA | 114% | | 40-140% |
| | d5-EtFOSAA | 125% | | 40-140% |
| | 13C2-6:2FTS | 91% | | 50-150% |
| | 13C2-8:2FTS | 99% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240188.D | 1 | 11/29/21 15:05 | PS | 11/24/21 08:00 | n/a | VI9766 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 22.6 | 9.1 | 3.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.45 | 0.41 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.5 | 0.51 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.8 | 0.39 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.5 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.5 | 0.69 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.1 | 2.2 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.8 | 0.49 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.8 | 0.56 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.8 | 0.42 | ug/kg | |
| 75-00-3 | Chloroethane ^a | ND | 4.5 | 0.54 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.8 | 0.47 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.5 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.8 | 0.60 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.8 | 0.63 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.8 | 0.51 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.91 | 0.38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene ^b | ND | 0.91 | 0.50 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene ^b | ND | 0.91 | 0.45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.91 | 0.45 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.5 | 0.66 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.91 | 0.45 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.91 | 0.43 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.91 | 0.59 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.91 | 0.76 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.91 | 0.55 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.8 | 0.43 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.8 | 0.43 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.8 | 0.41 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.91 | 0.41 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.5 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.5 | 1.9 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.8 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.5 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.8 | 0.79 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.91 | 0.43 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.5 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.5 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.8 | 0.36 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.8 | 0.54 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.8 | 0.53 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.91 | 0.48 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.8 | 0.44 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.8 | 0.50 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.91 | 0.69 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane ^c | ND | 4.5 | 0.62 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.8 | 0.44 | ug/kg | |
| | m,p-Xylene | ND | 0.91 | 0.81 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.91 | 0.42 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.91 | 0.42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 87% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits high, sample was ND.

(b) This compound in blank spike is outside in house QC limits bias high.

(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176723.D | 1 | 12/02/21 00:38 | KLS | 11/29/21 09:30 | OP36836 | EM7596 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 98 | ug/kg | |
| 87-86-5 | Pentachlorophenol ^b | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 39.8 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 62.9 | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.9 | ug/kg | |
| 120-12-7 | Anthracene | 92.6 | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 156 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 190 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 236 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 143 | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 82.5 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 11.5 | 74 | 5.0 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 16.1 | 74 | 5.3 | ug/kg | J |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 208 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 35.9 | 37 | 16 | ug/kg | J |
| 132-64-9 | Dibenzofuran | 20.0 | 74 | 15 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 74 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 326 | 74 | 8.6 | ug/kg | |
| 206-44-0 | Fluoranthene | 302 | 37 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 22.7 | 37 | 17 | ug/kg | J |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.3 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^b | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 160 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 16.6 | 37 | 8.3 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.5 | ug/kg | |
| 91-20-3 | Naphthalene | 24.8 | 37 | 10 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 141 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 408 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 63% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

4.11

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 63% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 100% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 81% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 83% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 71% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|--------------|--------------|----------|
| | Unknown | 6.17 | 410 | ug/kg | J |
| | Unknown | 7.55 | 670 | ug/kg | J |
| | Cyclohexane alkyl | 7.64 | 350 | ug/kg | J |
| | Alkane | 7.68 | 500 | ug/kg | J |
| | Unknown | 7.87 | 1000 | ug/kg | J |
| | Alkane | 8.57 | 940 | ug/kg | J |
| | Unknown | 9.06 | 310 | ug/kg | J |
| | Alkane | 9.30 | 680 | ug/kg | J |
| | Cyclohexane alkyl | 9.46 | 390 | ug/kg | J |
| | Naphthalene tetramethyl | 9.64 | 440 | ug/kg | J |
| | Alkane | 9.80 | 1700 | ug/kg | J |
| | Unknown | 9.99 | 330 | ug/kg | J |
| | Alkane | 10.21 | 340 | ug/kg | J |
| | Alkane | 11.39 | 490 | ug/kg | J |
| | Alkane | 11.49 | 430 | ug/kg | J |
| | Alkane | 12.31 | 310 | ug/kg | J |
| | Alkane | 13.08 | 410 | ug/kg | J |
| | Unknown | 14.11 | 280 | ug/kg | J |
| | Alkane | 16.57 | 440 | ug/kg | J |
| | Unknown | 19.17 | 370 | ug/kg | J |
| | Unknown | 19.28 | 290 | ug/kg | J |
| | Unknown | 19.38 | 690 | ug/kg | J |
| | Unknown | 19.77 | 700 | ug/kg | J |
| | Unknown | 19.86 | 890 | ug/kg | J |
| | Unknown | 20.48 | 340 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 13700 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-09-5.0-7.0 | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-6 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 90.3 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105034.D | 1 | 12/11/21 02:52 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 74% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 71% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8151A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134393.D | 4 | 12/04/21 04:01 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.3 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 72 | 32 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 14 | 8.2 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 14 | 7.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 10% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 8% ^b | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171591.D | 1 | 11/30/21 11:11 | CP | 11/27/21 10:05 | OP36830 | G1G5918 |
| Run #2 ^a | 1G171671.D | 5 | 12/02/21 00:29 | CP | 11/27/21 10:05 | OP36830 | G1G5922 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | 15.4 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^b | 0.96 | 0.72 | 0.59 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.72 | 0.58 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.72 | 0.65 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.72 | 0.69 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.72 | 0.53 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 6.8 | 0.72 | 0.58 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | 6.8 | 0.72 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin ^b | 0.90 | 0.72 | 0.49 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 8.7 | 0.72 | 0.66 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 3.7 | 0.72 | 0.63 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 2.0 | 0.72 | 0.64 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.72 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.72 | 0.56 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.72 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.72 | 0.41 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.72 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor | 0.94 | 0.72 | 0.62 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^c | 1.8 | 0.72 | 0.50 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.57 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.72 | 0.52 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 75% | 80% | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 82% | 81% | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 76% | 123% | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 112% | 111% | 10-179% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-09-5.0-7.0 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-6 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: SW846 8081B SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.11

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|----|-----|-------|---|
|---------|----------|--------|----|-----|-------|---|

being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | |
| Lab Sample ID: | JD35782-6 | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 90.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475290.D | 1 | 12/07/21 03:45 | TL | 11/27/21 10:05 | OP36831 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 77% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 74% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 95% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 7740 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 6.4 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 69.5 | 22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.56 | 0.22 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 21800 | 550 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 15.5 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 6.0 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 36.2 | 2.8 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 13800 | 55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 71.4 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 3030 | 550 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 253 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.15 | 0.037 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB | SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 19.6 | 4.4 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | 1170 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Silver | 0.87 | 0.55 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 24.2 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 63.7 | 5.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51494

(2) Instrument QC Batch: MA51527

(3) Prep QC Batch: MP30055

(4) Prep QC Batch: MP30089

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-09-5.0-7.0 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-6 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.11

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.22 | 0.22 | mg/kg | 1 | 12/08/21 21:16 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.3 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-09-5.0-7.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-6A | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50967.D | 1 | 12/21/21 13:03 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.10 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.40 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.53 | 0.28 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.26 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.26 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-09-5.0-7.0 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-6A | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.12

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 95% | | 40-140% |
| | 13C5-PFPeA | 97% | | 50-150% |
| | 13C5-PFHxA | 97% | | 50-150% |
| | 13C4-PFHpA | 99% | | 50-150% |
| | 13C8-PFOA | 99% | | 50-150% |
| | 13C9-PFNA | 100% | | 50-150% |
| | 13C6-PFDA | 102% | | 50-150% |
| | 13C7-PFUnDA | 99% | | 40-140% |
| | 13C2-PFDoDA | 83% | | 40-140% |
| | 13C2-PFTeDA | 85% | | 30-130% |
| | 13C3-PFBS | 97% | | 50-150% |
| | 13C3-PFHxS | 99% | | 50-150% |
| | 13C8-PFOS | 97% | | 50-150% |
| | 13C8-FOSA | 104% | | 30-130% |
| | d3-MeFOSAA | 117% | | 40-140% |
| | d5-EtFOSAA | 129% | | 40-140% |
| | 13C2-6:2FTS | 95% | | 50-150% |
| | 13C2-8:2FTS | 106% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240236.D | 1 | 11/30/21 18:46 | PS | 11/24/21 08:00 | n/a | VI9767 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 4.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 22.6 | 15 | 6.0 | ug/kg | |
| 71-43-2 | Benzene | 2.5 | 0.73 | 0.66 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.3 | 0.81 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.9 | 0.62 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.3 | 2.0 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 7.3 | 1.1 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 15 | 3.5 | ug/kg | |
| 75-15-0 | Carbon disulfide | 2.1 | 2.9 | 0.78 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 2.9 | 0.90 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.9 | 0.67 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.3 | 0.86 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.9 | 0.76 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.9 | 0.96 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.9 | 1.0 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.9 | 0.81 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.5 | 0.61 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.5 | 0.79 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.5 | 0.72 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.5 | 0.72 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.3 | 1.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.5 | 0.72 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.5 | 0.68 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.5 | 0.95 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.5 | 1.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.5 | 0.89 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.9 | 0.69 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.9 | 0.69 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.9 | 0.67 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.5 | 0.66 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.3 | 3.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 7.3 | 3.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.9 | 2.1 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 7.3 | 2.0 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.9 | 1.3 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.5 | 0.68 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 7.3 | 3.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.3 | 3.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.9 | 0.58 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.9 | 0.87 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.9 | 0.84 | ug/kg | |
| 108-88-3 | Toluene | 1.5 | 1.5 | 0.76 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.3 | 3.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.3 | 3.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.9 | 0.70 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.9 | 0.81 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.5 | 1.1 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.3 | 1.0 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.9 | 0.70 | ug/kg | |
| | m,p-Xylene | ND | 1.5 | 1.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.5 | 0.67 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.5 | 0.67 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | M176766.D | 1 | 12/03/21 08:08 | CS | 11/29/21 09:30 | OP36836 | EM7598 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 75 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 67 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 75 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 75 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 380 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 75 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 107 | 38 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 121 | 38 | 19 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 190 | 8.1 | ug/kg | |
| 120-12-7 | Anthracene | 244 | 38 | 23 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 75 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 634 | 38 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 574 | 38 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 698 | 38 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 316 | 38 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 281 | 38 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 75 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 75 | 9.2 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 11.7 | 75 | 5.2 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.3 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 75 | 9.0 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 14 | ug/kg | |
| 86-74-8 | Carbazole | 40.5 | 75 | 5.5 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 75 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 686 | 38 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 75 | 8.1 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 75 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 75 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 75 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 38 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 38 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 75 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 38 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 95.3 | 38 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | 85.5 | 75 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 75 | 6.1 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 75 | 9.4 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 75 | 8.0 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 75 | 6.7 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 160 | 75 | 8.8 | ug/kg | |
| 206-44-0 | Fluoranthene | 1140 | 38 | 17 | ug/kg | |
| 86-73-7 | Fluorene | 83.7 | 38 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 75 | 9.5 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 38 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 380 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 400 | 38 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 75 | 8.1 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 37.7 | 38 | 8.5 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline ^a | ND | 190 | 8.9 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.4 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.8 | ug/kg | |
| 91-20-3 | Naphthalene | 106 | 38 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 75 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 75 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 539 | 38 | 13 | ug/kg | |
| 129-00-0 | Pyrene | 1260 | 38 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 49% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-10-7.0-9.0 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-7 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 85.9 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.13

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 52% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 59% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 60% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | system artifact/aldol-condensation | 3.30 | 1500 | ug/kg | J |
| | Naphthalene dimethyl | 7.65 | 170 | ug/kg | J |
| | Phenanthrene methyl | 11.65 | 180 | ug/kg | J |
| | unknown | 11.79 | 240 | ug/kg | J |
| | Phenanthrene methyl | 11.84 | 150 | ug/kg | J |
| | unknown | 12.71 | 210 | ug/kg | J |
| | unknown | 13.14 | 270 | ug/kg | J |
| | Pyrene methyl | 14.08 | 170 | ug/kg | J |
| | Pyrene methyl | 14.22 | 180 | ug/kg | J |
| | unknown | 14.66 | 240 | ug/kg | J |
| | unknown | 14.98 | 370 | ug/kg | J |
| | unknown | 15.37 | 170 | ug/kg | J |
| | alkane | 17.18 | 190 | ug/kg | J |
| | unknown PAH substance | 17.97 | 240 | ug/kg | J |
| | unknown PAH substance | 18.25 | 480 | ug/kg | J |
| | unknown | 19.36 | 250 | ug/kg | J |
| | unknown | 19.84 | 410 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 3920 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-10-7.0-9.0 | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-7 | Date Received: 11/23/21 |
| Matrix: SO - Soil | Percent Solids: 85.9 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105035.D | 1 | 12/11/21 03:13 | KLS | 11/29/21 09:30 | OP36836A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.8 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 63% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Method: | SW846 8151A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134400.D | 4 | 12/04/21 07:12 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.7 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 74 | 33 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 15 | 8.4 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 15 | 7.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 8% ^b | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 5% ^b | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171601.D | 1 | 11/30/21 17:30 | KS | 11/27/21 10:05 | OP36830 | G1G5919 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.76 | 0.62 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.76 | 0.61 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.76 | 0.68 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.76 | 0.73 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.76 | 0.56 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.76 | 0.61 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.76 | 0.34 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.76 | 0.52 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | 1.1 | 0.76 | 0.69 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 2.2 | 0.76 | 0.66 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | 0.86 | 0.76 | 0.67 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.76 | 0.59 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.76 | 0.59 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.76 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.76 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.76 | 0.47 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.76 | 0.65 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.76 | 0.53 | ug/kg | |
| 72-43-5 | Methoxychlor | 4.1 | 1.5 | 0.60 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.76 | 0.55 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 76% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 73% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 70% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 135% | | 10-179% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | |
| Lab Sample ID: | JD35782-7 | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 85.9 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475140.D | 1 | 12/02/21 07:40 | TL | 11/27/21 10:05 | OP36831 | GXX7671 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 78% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 70% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 82% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35782-7 | Date Received: | 11/23/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.9 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|---------------------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Aluminum | 9560 | 57 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Arsenic | 4.5 | 2.3 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Barium | 78.5 | 23 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Beryllium | 0.62 | 0.23 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Cadmium | 3.0 | 0.57 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Calcium | 30100 | 1100 | mg/kg | 2 | 12/01/21 | 12/10/21 | ND | SW846 6010D ³ |
| Chromium | 17.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Cobalt | 5.7 | 5.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Copper | 15.5 | 2.8 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Iron | 14700 | 57 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Lead | 73.3 | 2.3 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Magnesium | 8400 | 570 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Manganese | 390 | 1.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Mercury | 0.11 | 0.037 | mg/kg | 1 | 11/29/21 | 11/29/21 | SB | SW846 7471B ¹ |
| Nickel | 21.7 | 4.5 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Potassium | 2370 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Silver ^a | < 1.1 | 1.1 | mg/kg | 2 | 12/01/21 | 12/10/21 | ND | SW846 6010D ³ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Vanadium | 22.7 | 5.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |
| Zinc | 569 | 5.7 | mg/kg | 1 | 12/01/21 | 12/02/21 | ND | SW846 6010D ² |

- (1) Instrument QC Batch: MA51494
- (2) Instrument QC Batch: MA51527
- (3) Instrument QC Batch: MA51586
- (4) Prep QC Batch: MP30055
- (5) Prep QC Batch: MP30089

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-10-7.0-9.0 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-7 | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 85.9 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.13

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.23 | 0.23 | mg/kg | 1 | 12/08/21 21:18 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 85.9 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-10-7.0-9.0 | |
| Lab Sample ID: | JD35782-7A | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/23/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 85.9 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50972.D | 1 | 12/21/21 14:26 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.44 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.58 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.36 | 0.58 | 0.29 | ug/kg | J |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.14

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-10-7.0-9.0 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35782-7A | | Date Received: 11/23/21 |
| Matrix: SO - Soil | | Percent Solids: 85.9 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.14

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 73% | | 40-140% |
| | 13C5-PFPeA | 74% | | 50-150% |
| | 13C5-PFHxA | 74% | | 50-150% |
| | 13C4-PFHpA | 76% | | 50-150% |
| | 13C8-PFOA | 75% | | 50-150% |
| | 13C9-PFNA | 75% | | 50-150% |
| | 13C6-PFDA | 76% | | 50-150% |
| | 13C7-PFUnDA | 70% | | 40-140% |
| | 13C2-PFDoDA | 68% | | 40-140% |
| | 13C2-PFTeDA | 71% | | 30-130% |
| | 13C3-PFBS | 73% | | 50-150% |
| | 13C3-PFHxS | 73% | | 50-150% |
| | 13C8-PFOS | 71% | | 50-150% |
| | 13C8-FOSA | 72% | | 30-130% |
| | d3-MeFOSAA | 89% | | 40-140% |
| | d5-EtFOSAA | 94% | | 40-140% |
| | 13C2-6:2FTS | 71% | | 50-150% |
| | 13C2-8:2FTS | 79% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



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Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)



SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSQAAC-0023-04-FORM-Standard COC

FED-EX Tracking #
Bottle Order Control # **JS-111121-141**
SGS Quote #
SGS Job # **JD35782**

| Client / Reporting Information | | Project Information | | Requested Analysis | | Matrix Codes | |
|---|--|--|--|--------------------|--|--|--|
| Company Name: TERRA TECH | | Project Name: 2ND AVE # 33RD S6. | | Matrix Codes | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank | |
| Street Address: 6 CENTURY DR. | | Street: | | Requested Analysis | | Matrix Codes | |
| City, State, Zip: PARLIPPANY NJ 07954 | | City, State, Zip: BROOKLYN NY | | Requested Analysis | | Matrix Codes | |
| Project Contact: BOB CANTAGALLO | | Project #: | | Requested Analysis | | Matrix Codes | |
| E-mail: BOB.CANTAGALLO@TERRATECH.COM | | Street Address: | | Requested Analysis | | Matrix Codes | |
| Phone #: 973 650 4045 | | Client Purchase Order #: | | Requested Analysis | | Matrix Codes | |
| Sampler(s) Name(s): A. VALU | | Project Manager: | | Requested Analysis | | Matrix Codes | |
| Phone #: | | Attention: | | Requested Analysis | | Matrix Codes | |

Requested Analysis

V8260 TEL 207
A68270 TEL 20
B8270 SIM 1,4 DIK
P8081 PEST TEL
P8082 PCB 11
H8151 STD
X METAL CN
METAL
LCID SSTM 21

| SGS Sample # | Field ID / Point of Collection | MECH/ID Vial # | Collection | | Sampled by | Grab (G) Conto (C) | Source Chlorinated (Y/N) | Matrix | # of bottles | Number of preserved Bottles | | | | | | | | | | LAB USE ONLY | | | | | | | | | | | | |
|--------------|--------------------------------|----------------|------------|------|------------|--------------------|--------------------------|--------|--------------|-----------------------------|--------|------|-------|------|------|----------|-----|--------|-------------------------|--------------|---|---|---|---|---|---|---|---|---|---|--------|--|
| | | | Date | Time | | | | | | HCl | NI(OH) | HNO3 | H2SO4 | HNO3 | NONE | DI WATER | MEQ | ENCORE | PH CHECK (Lab Use Only) | | | | | | | | | | | | | |
| 1 | TT-SB-05-6-5-8-5 | 0 | 11/19/2021 | 1350 | AV | G | SO | 6 | | | | | | | | 3 | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | D44 | |
| 2 | SDVP-01 | 0 | 11/19/2021 | 1600 | AV | G | SO | 6 | | | | | | | | 3 | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | P13 | |
| 3 | TT-SB-06-5-0-7-0 | 0 | 11/22/2021 | 0935 | AV | G | SO | 6 | | | | | | | | 3 | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | SUB | |
| 4 | TT-SB-07-6-0-8-0 | 0 | 11/22/2021 | 1123 | AV | G | SO | 6 | | | | | | | | 3 | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ENCORE | |
| 5 | TT-SB-08-7-0-9-0 | 0 | 11/22/2021 | 1404 | AV | G | SO | 6 | | | | | | | | 5 | 5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1461 | |
| 6 | TT-SB-09-5-0-7-0 | 0 | 11/23/2021 | 0915 | AV | G | SO | 18 | | | | | | | | 9 | 9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 4981 | |
| 7 | TT-SB-10-7-0-9-0 | 0 | 11/23/2021 | 1106 | AV | G | SO | 6 | | | | | | | | 3 | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Turn Around Time (Business Days) _____ Deliverable _____ Comments / Special Instructions _____

Approved By (SGS PM) / Date: _____

10 Business Days
 5 Business Days
 3 Business Days*
 2 Business Days*
 1 Business Day*
 Other _____

Commercial "A" (Level 1)
 Commercial "B" (Level 2)
 NJ Reduced (Level 3)
 Full Tier 1 (Level 4)
 Commercial "C"
 NJ DKQP

NYASP Category A
 NYASP Category B
 MA MCP Criteria
 CT RCP Criteria
 State Forms
 EDD Format

DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
 Commercial "C" = Results + QC Summary + Paper Raw data

TT-SB-09-5-0-7-0 → Ms/WSD
 9x5gram encore initial Assessment
 3x5gram encore label Verification

<http://www.sgs.com/en/terms-and-conditions>

| | | | | |
|-------------------------------------|------------------------------|---------------------------------|----------------------------|---------------------------------|
| Relinquished By: A. VALU | Date / Time: 11/23/2021 1526 | Received By: [Signature] | Date / Time: 11/23/21 1526 | Received By: [Signature] |
| Relinquished By: [Signature] | Date / Time: | Received By: [Signature] | Date / Time: | Received By: [Signature] |
| Relinquished By: [Signature] | Date / Time: | Received By: [Signature] | Date / Time: | Received By: [Signature] |
| Relinquished By: [Signature] | Date / Time: | Received By: [Signature] | Date / Time: | Received By: [Signature] |

Intact
 Not Intact | Absent

Therm ID: _____ On Ice _____ Cooler Temp. °C **3.1, 2.5 CIP**

SGS Sample Receipt Summary

Job Number: JD35782

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 11/23/2021 3:26:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1); Cooler 2: (2.5);

Cooler Temps (Corrected) °C: Cooler 1: (1.7); Cooler 2: (1.1);

| <u>Cooler Security</u> | <u>Y or N</u> | | <u>Y or N</u> | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) |
|--------------------|-----------------|-----------------|------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD35782: Chain of Custody

Page 2 of 3

5.1

Job Change Order: JD35782

Requested Date: 12/13/2021 **Received Date:** 11/23/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD35782-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD35782: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.





CHAIN OF CUSTODY

SGS North America Inc. - Dayton
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.sgs.com/ehsausa

| Client Reporting Information | | Project Information | | Requested Analysis | | Matrix Codes | | | | | | | | | | | | |
|---|--------------------------------|--|--------------|---|--------------|--|--------------|---|--------------|------|-------|------|-------|-------|-------|-------|-------|-----------|
| Company Name: | | Project Name: | | SGS Quote # | | Matrix Center Control # | | | | | | | | | | | | |
| Street Address: | | 2nd Avenue and 33-39th Street, Brooklyn, NY | | SGS Job # | | JD35782 | | | | | | | | | | | | |
| City State Zip: | | Billing Information (if different from Report to): | | Company Name: | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LI - LI LIG - Other Liquid SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinsate Blank TB - Trip Blank | | | | | | | | | | | | |
| Project Contact: E-mail: Jason.Schiller@sgs.com | | Project #: | | Street Address: | | LAB USE ONLY | | | | | | | | | | | | |
| Phone #: | | Client Purchase Order #: | | City State Zip: | | | | | | | | | | | | | | |
| Sample(s) Name(s): | | Project Manager: | | Attention: | | | | | | | | | | | | | | |
| AV | | | | | | | | | | | | | | | | | | |
| SBS Sample # | Field ID / Point of Collection | METHOD / Vial # | Collection | | Sampled by | Matrix | # of bottles | Number of preserved bottles | | | | | | | | | | LGD357821 |
| | | | Date | Time | | | | HCl | HNO3 | H2O2 | H2SO4 | None | Other | Other | Other | Other | Other | |
| 1A | TT-SB-05-6.5-8.5 | | 11/19/21 | 1:50:00 PM | AV | SO | | | | | | | | | | | | X |
| 2A | S DUP-01 | | 11/19/21 | 4:00:00 PM | AV | SO | | | | | | | | | | | | X |
| 3A | TT-SB-06-5.0-7.0 | | 11/22/21 | 9:35:00 AM | AV | SO | | | | | | | | | | | | X |
| 4A | TT-SB-07-6.0-8.0 | | 11/22/21 | 12:23:00 PM | AV | SO | | | | | | | | | | | | X |
| 5A | TT-SB-08-7.0-9.0 | | 11/22/21 | 2:04:00 PM | AV | SO | | | | | | | | | | | | X |
| 6A | TT-SB-09-5.0-7.0 | | 11/23/21 | 9:15:00 AM | AV | SO | | | | | | | | | | | | X |
| GAD | TT-SB-09-5.0-7.0 | | 11/23/21 | 9:15:00 AM | AV | SO | | | | | | | | | | | | X |
| GAS | TT-SB-09-5.0-7.0 | | 11/23/21 | 9:15:00 AM | AV | SO | | | | | | | | | | | | X |
| 7A | TT-SB-10-7.0-9.0 | | 11/23/21 | 11:06:00 AM | AV | SO | | | | | | | | | | | | X |
| Turnaround Time (Business days): | | Approved By (SGS PM): / Date: | | Data Deliverable Information: | | Comments / Special Instructions: | | | | | | | | | | | | |
| <input type="checkbox"/> Standard 10 Business Days <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> Other 1/14/1900 | | Approved for FLUSH/Emergency TAT | | <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data | | <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other NYASPB | | INITIAL ASSESSMENT LABEL VERIFICATION | | | | | | | | | | |
| Sample Custody must be documented below each time samples change possession, including ocular delivery. | | | | | | | | http://www.sgs.com/en/terms-and-conditions | | | | | | | | | | |
| Relinquished by: | Date / Time: | Received By: | Date / Time: | Relinquished by: | Date / Time: | Received By: | Date / Time: | Relinquished by: | Date / Time: | | | | | | | | | |
| 1 | 11/24/21 | 1 | 11/24/21 | 2 | 11/30/21 | 2 | 11/30/21 | 4 | 11/30/21 | | | | | | | | | |
| Relinquished by: | Date / Time: | Received By: | Date / Time: | Relinquished by: | Date / Time: | Received By: | Date / Time: | Relinquished by: | Date / Time: | | | | | | | | | |
| S | | 5 | | | | | | | | | | | | | | | | |
| Custody Seal # | | Indict | | Preserved where applicable | | On Ice | | Cooler Temp. °C | | | | | | | | | | |
| | | <input type="checkbox"/> | | <input type="checkbox"/> | | <input type="checkbox"/> | | 4.8-11 | | | | | | | | | | |

5.2

JD35782: Chain of Custody
 Page 1 of 2
 SGS Orlando, FL



SGS Sample Receipt Summary

Job Number: JD35782

Client: SGS NJ

Project: 2ND AVENUE AND 33-39TH STREET, BROOLK

Date / Time Received: 11/30/2021 3:00:00 PM

Delivery Method: FX

Airbill #'s: 5272 0636 6565

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

Cooler Information

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

Trip Blank Information

Y or N

N/A

- 1. Trip Blank present / cooler
 - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

Sample Information

Y or N

N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____

Number of 5035 Field Kits: _____

Number of Lab Filtered Metals: _____

Test Strip Lot #: pH 0-3 230315

pH 10-12 219813A

Other: (Specify) _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: STEPHENP

Date: 11/30/2021 3:00:00 P

Reviewer: _____

Date: _____

JD35782: Chain of Custody

Page 2 of 2

5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD35850

Sampling Dates: 11/23/21 - 11/24/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 46



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499

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Sample Summary

Tetra Tech

Job No: JD35850

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

**This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL**

| | | | | | | | |
|------------|----------|-------|----|----------|----|------|------------------|
| JD35850-1 | 11/23/21 | 13:35 | AV | 11/24/21 | SO | Soil | TT-SB-11-6.5-8.5 |
| JD35850-1A | 11/23/21 | 13:35 | AV | 11/24/21 | SO | Soil | TT-SB-11-6.5-8.5 |
| JD35850-2 | 11/24/21 | 09:08 | AV | 11/24/21 | SO | Soil | TT-SB-12-7.0-9.0 |
| JD35850-2A | 11/24/21 | 09:08 | AV | 11/24/21 | SO | Soil | TT-SB-12-7.0-9.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No: JD35850

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/23/2021 3:13:06 P

On 11/24/2021, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35850 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: V1C7964

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35538-1AMS, JD35538-1AMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone(MIBK), Benzene, Bromochloromethane, Bromodichloromethane, Bromoform, Carbon disulfide, Chlorobenzene, Chloroethane, Chloroform, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Isopropylbenzene, m,p-Xylene, Methylene chloride, o-Xylene, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Hexanone, Benzene, Bromodichloromethane, Bromoform, Chloroethane, Chloroform, Dibromochloromethane, Methylene chloride, o-Xylene, Tetrachloroethene, Trichloroethene, Vinyl chloride, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromochloromethane, Carbon disulfide, Chlorobenzene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Ethylbenzene, m,p-Xylene, Styrene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Vinyl chloride are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromochloromethane, Carbon disulfide, Chlorobenzene, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Ethylbenzene, m,p-Xylene, Styrene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88771

- The data for EPA 537M BY ID meets quality control requirements.
- JD35850-2A: Analysis performed at SGS Orlando, FL.
- JD35850-1A: Analysis performed at SGS Orlando, FL.

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MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36860

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35820-1MS, JD35820-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Caprolactam are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD35850-1 for 1,4-Dioxane: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD35850-2 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35850-1 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35850-2 for 1,4-Dioxane: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36860A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35850-1MS, JD35850-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36857

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35838-1MS, JD35838-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for delta-BHC, Dieldrin, Heptachlor are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Dieldrin are outside control limits. Outside control limits due to matrix interference.
- JD35850-2: Had TBA cleanup.
- JD35850-1: Had TBA cleanup.
- OP36857-MB1: Had TBA cleanup.
- JD35850-2 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35850-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP36857-BS1 for Dieldrin: Reported from 2nd signal. 1st signal used for confirmation.
- OP36857-BS1 for Aldrin: Reported from 1st signal, 1st signal used for confirmation.
- OP36857-BS1 for Dieldrin: Reported from 2nd signal. 1st signal used for confirmation.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36858

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35838-3MS, JD35838-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP36858-BSD for Aroclor 1260: Analytical precision exceeds in-house control limits. Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP36858-BS1 for Aroclor 1260: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP36858-BSD for Aroclor 1016: Analytical precision exceeds in-house control limits.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36859

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35782-6MS, JD35782-6MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-T, 2,4,5-TP (Silvex) are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for 2,4,5-T, 2,4,5-TP (Silvex) are outside control limits. Analytical precision exceeds in-house control limits.
- JD35850-2: Had TBA cleanup. Dilution required due to matrix interference.
- OP36859-MB1: Had TBA cleanup.
- OP36859-BS1: Had TBA cleanup.
- OP36859-MSD: Had TBA cleanup. Dilution required due to matrix interference.
- OP36859-MS: Had TBA cleanup. Dilution required due to matrix interference.
- JD35850-1: Had TBA cleanup. Dilution required due to matrix interference.
- JD35850-2 for 2,4-DCAA: Outside control limits due to matrix interference and dilution.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30111

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD33564-1TMSD, JD33564-1TPS, JD33564-1TSDL, JD33564-1TMS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Calcium, Magnesium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Calcium, Magnesium, Aluminum, Zinc are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for MS/MSD for Zinc are outside control limits. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Selenium, Silver are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD35850-2 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD35850-2 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD35850-2 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD35850-2 for Manganese: Elevated detection limit due to dilution required for high interfering element.
- JD35850-2 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- JD35850-2 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD35850-2 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- Matrix Spike Recovery(s) for Aluminum are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30076

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35859-2MS, JD35859-2MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24294

- Sample(s) JD35846-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37313

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35838-1DUP, JD35838-1MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Duplicate for Cyanide are outside control limits. RPD acceptable due to low duplicate and sample concentrations.
- JD35850-2 for Cyanide: Sample prepped within holding time, but run out of holding time.
- JD35850-1 for Cyanide: Sample prepped within holding time, but run out of holding time.

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SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD35850

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/22/2021 9:08:45

On 11/24/2021, 2 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35850 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88771

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) JD35782-6AMS, JD35782-6AMSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD35850
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/23/21 thru 11/24/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------------|------------------|-----------------|------|------|-------|-------------|
| JD35850-1 | TT-SB-11-6.5-8.5 | | | | | |
| Acetone | | 25.7 | 9.4 | 3.9 | ug/kg | SW846 8260D |
| 2-Butanone (MEK) | | 3.8 J | 9.4 | 2.3 | ug/kg | SW846 8260D |
| o-Xylene | | 0.61 J | 0.94 | 0.43 | ug/kg | SW846 8260D |
| Xylene (total) | | 0.61 J | 0.94 | 0.43 | ug/kg | SW846 8260D |
| Total TIC, Volatile | | 124.3 J | | | ug/kg | |
| Acenaphthene | | 212 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 50.5 | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 341 | 37 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 758 | 37 | 11 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 757 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 938 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 503 | 37 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 304 | 37 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 29.7 J | 74 | 5.1 | ug/kg | SW846 8270E |
| Carbazole | | 90.1 | 74 | 5.4 | ug/kg | SW846 8270E |
| Chrysene | | 791 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 141 | 37 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | | 123 | 74 | 15 | ug/kg | SW846 8270E |
| Di-n-butyl phthalate | | 54.6 J | 74 | 6.0 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 186 | 74 | 8.7 | ug/kg | SW846 8270E |
| Fluoranthene | | 1880 | 37 | 17 | ug/kg | SW846 8270E |
| Fluorene | | 223 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 594 | 37 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 99.4 | 37 | 8.4 | ug/kg | SW846 8270E |
| Naphthalene | | 91.0 | 37 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | | 1400 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 1790 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 24470 J | | | ug/kg | |
| alpha-BHC ^a | | 1.3 | 0.76 | 0.62 | ug/kg | SW846 8081B |
| gamma-BHC (Lindane) ^a | | 5.2 | 0.76 | 0.56 | ug/kg | SW846 8081B |
| alpha-Chlordane ^a | | 2.2 | 0.76 | 0.61 | ug/kg | SW846 8081B |
| gamma-Chlordane ^a | | 8.8 | 0.76 | 0.34 | ug/kg | SW846 8081B |
| Dieldrin ^a | | 3.0 | 0.76 | 0.52 | ug/kg | SW846 8081B |
| 4,4'-DDD ^a | | 108 | 3.8 | 3.5 | ug/kg | SW846 8081B |
| 4,4'-DDE ^a | | 14.3 | 0.76 | 0.66 | ug/kg | SW846 8081B |
| 4,4'-DDT ^a | | 10.1 | 0.76 | 0.67 | ug/kg | SW846 8081B |
| Endosulfan-II ^a | | 3.8 | 0.76 | 0.47 | ug/kg | SW846 8081B |
| Heptachlor epoxide ^a | | 5.6 | 0.76 | 0.53 | ug/kg | SW846 8081B |
| Aluminum | | 5050 | 57 | | mg/kg | SW846 6010D |
| Arsenic | | 4.7 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 95.3 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.48 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | | 7380 | 570 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35850
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/23/21 thru 11/24/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|------|-----|-------|-------------|
| | | 33.2 | 1.1 | | mg/kg | SW846 6010D |
| | | 7.6 | 5.7 | | mg/kg | SW846 6010D |
| | | 90.5 | 2.9 | | mg/kg | SW846 6010D |
| | | 11900 | 57 | | mg/kg | SW846 6010D |
| | | 526 | 2.3 | | mg/kg | SW846 6010D |
| | | 3730 | 570 | | mg/kg | SW846 6010D |
| | | 180 | 1.7 | | mg/kg | SW846 6010D |
| | | 2.5 | 0.31 | | mg/kg | SW846 7471B |
| | | 29.6 | 4.6 | | mg/kg | SW846 6010D |
| | | 17.9 | 5.7 | | mg/kg | SW846 6010D |
| | | 459 | 5.7 | | mg/kg | SW846 6010D |

JD35850-1A TT-SB-11-6.5-8.5

No hits reported in this sample.

JD35850-2 TT-SB-12-7.0-9.0

| | | | | | |
|----------------------------|---------|-----|-----|-------|-------------|
| Acetone | 50.2 | 11 | 4.7 | ug/kg | SW846 8260D |
| Total TIC, Volatile | 58 J | | | ug/kg | |
| Acenaphthene | 1120 | 38 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | 6290 | 770 | 390 | ug/kg | SW846 8270E |
| Anthracene | 7000 | 770 | 470 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 7870 | 770 | 220 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 9330 | 770 | 350 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 7170 | 770 | 340 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 1540 | 38 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 1540 | 38 | 18 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | 1330 | 77 | 5.2 | ug/kg | SW846 8270E |
| Carbazole | 42.3 J | 77 | 5.6 | ug/kg | SW846 8270E |
| Chrysene | 7730 | 770 | 240 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 343 | 38 | 17 | ug/kg | SW846 8270E |
| Dibenzofuran | 324 | 77 | 16 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 317 | 77 | 9.0 | ug/kg | SW846 8270E |
| Fluoranthene | 14400 | 770 | 340 | ug/kg | SW846 8270E |
| Fluorene | 7210 | 770 | 350 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 1730 | 38 | 18 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | 3300 | 38 | 8.7 | ug/kg | SW846 8270E |
| Naphthalene | 1290 | 38 | 11 | ug/kg | SW846 8270E |
| Phenanthrene | 37400 | 770 | 260 | ug/kg | SW846 8270E |
| Pyrene | 29100 | 770 | 250 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 44140 J | | | ug/kg | |
| Aluminum | 6280 | 58 | | mg/kg | SW846 6010D |
| Antimony | 2.9 | 2.3 | | mg/kg | SW846 6010D |
| Arsenic | 8.5 | 2.3 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35850
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/23/21 thru 11/24/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|------------------------|-------|-------|-------|-------------|
| | | Barium | 240 | 23 | mg/kg | SW846 6010D |
| | | Beryllium | 0.36 | 0.23 | mg/kg | SW846 6010D |
| | | Cadmium ^b | 5.1 | 2.9 | mg/kg | SW846 6010D |
| | | Calcium | 49000 | 2900 | mg/kg | SW846 6010D |
| | | Chromium | 23.8 | 1.2 | mg/kg | SW846 6010D |
| | | Cobalt | 7.1 | 5.8 | mg/kg | SW846 6010D |
| | | Copper ^b | 124 | 15 | mg/kg | SW846 6010D |
| | | Iron | 29300 | 290 | mg/kg | SW846 6010D |
| | | Lead ^b | 266 | 12 | mg/kg | SW846 6010D |
| | | Magnesium | 5970 | 580 | mg/kg | SW846 6010D |
| | | Manganese ^b | 323 | 8.7 | mg/kg | SW846 6010D |
| | | Mercury | 0.54 | 0.032 | mg/kg | SW846 7471B |
| | | Nickel | 26.2 | 4.6 | mg/kg | SW846 6010D |
| | | Vanadium | 25.5 | 5.8 | mg/kg | SW846 6010D |
| | | Zinc | 1220 | 29 | mg/kg | SW846 6010D |

JD35850-2A TT-SB-12-7.0-9.0

No hits reported in this sample.

- (a) Had TBA cleanup.
- (b) Elevated detection limit due to dilution required for high interfering element.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35850-1 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 87.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1C182931.D | 1 | 12/01/21 02:20 | PS | 11/24/21 19:46 | n/a | V1C7964 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 25.7 | 9.4 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.72 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | 3.8 | 9.4 | 2.3 | ug/kg | J |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.55 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.49 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.62 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.52 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.94 | 0.39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.94 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.94 | 0.46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.94 | 0.46 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.68 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.94 | 0.46 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.94 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.94 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.94 | 0.79 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.94 | 0.57 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.44 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.94 | 0.42 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35850-1 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 87.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.82 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.94 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.54 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.94 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.45 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.94 | 0.71 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.64 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.94 | 0.84 | ug/kg | |
| 95-47-6 | o-Xylene | 0.61 | 0.94 | 0.43 | ug/kg | J |
| 1330-20-7 | Xylene (total) | 0.61 | 0.94 | 0.43 | ug/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 109% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 95% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 108% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|-------------------------------------|-------|------------|-------|----|
| | C4 alkyl benzene | 16.48 | 8.1 | ug/kg | J |
| | 1H-indene-dihydro-dimethyl - isomer | 16.83 | 6.7 | ug/kg | J |
| | C4 alkyl benzene | 16.89 | 13 | ug/kg | J |
| | unknown | 17.07 | 6.3 | ug/kg | J |
| | C5 alkyl benzene | 17.28 | 5.9 | ug/kg | J |
| | C4 alkyl benzene | 17.37 | 8.4 | ug/kg | J |
| | 1H-Indene-dihydro-methyl - isomer | 17.42 | 8.4 | ug/kg | J |
| | C5 alkyl benzene | 17.66 | 7.5 | ug/kg | J |
| | 1H-indene-dihydro-dimethyl - isomer | 17.82 | 11 | ug/kg | J |
| 91-20-3 | Naphthalene | 18.05 | 9.9 | ug/kg | JN |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-11-6.5-8.5 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35850-1 | | Date Received: 11/24/21 |
| Matrix: SO - Soil | | Percent Solids: 87.5 |
| Method: SW846 8260D SW846 5035 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|-------------------------------------|-------|------------|--------------|--------------|
| 91-57-6 | 1H-indene-dihydro-dimethyl - isomer | 18.30 | 7.9 | ug/kg | J |
| | Naphthalene, 2-methyl- | 19.01 | 6.9 | ug/kg | JN |
| | Naphthalene, methyl - isomer | 19.18 | 8.9 | ug/kg | J |
| | Naphthalene, dimethyl - isomer | 19.86 | 8.4 | ug/kg | J |
| | Naphthalene, dimethyl - isomer | 20.01 | 7 | ug/kg | J |
| | Total TIC, Volatile | | | 124.3 | ug/kg |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35850-1 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 87.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | Z153639.D | 1 | 12/02/21 21:23 | KLS | 11/29/21 13:15 | OP36860 | EZ7633 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 66 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 370 | 99 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 212 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 50.5 | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.0 | ug/kg | |
| 120-12-7 | Anthracene | 341 | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 758 | 37 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 757 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 938 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 503 | 37 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 304 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.1 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 29.7 | 74 | 5.1 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.2 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 90.1 | 74 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35850-1 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 87.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 791 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane ^b | ND | 37 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 141 | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | 123 | 74 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 54.6 | 74 | 6.0 | ug/kg | J |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.9 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.6 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 186 | 74 | 8.7 | ug/kg | |
| 206-44-0 | Fluoranthene | 1880 | 37 | 17 | ug/kg | |
| 86-73-7 | Fluorene | 223 | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.4 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 594 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 99.4 | 37 | 8.4 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 8.8 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.3 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.6 | ug/kg | |
| 91-20-3 | Naphthalene | 91.0 | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 1400 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 1790 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 63% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | |
| Lab Sample ID: | JD35850-1 | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/24/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 87.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105036.D | 1 | 12/11/21 03:34 | KLS | 11/29/21 13:15 | OP36860A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 78% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 75% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | |
| Lab Sample ID: | JD35850-1 | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/24/21 |
| Method: | SW846 8151A SW846 3546 | Percent Solids: 87.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134401.D | 4 | 12/04/21 07:40 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 74 | 33 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 15 | 8.3 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 15 | 7.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 24% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 17% | | 10-125% |

(a) Had TBA cleanup. Dilution required due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35850-1 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 87.5 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G171675.D | 1 | 12/02/21 01:42 | CP | 11/29/21 09:00 | OP36857 | G1G5922 |
| Run #2 ^a | 1G171741.D | 5 | 12/06/21 02:01 | CP | 11/29/21 09:00 | OP36857 | G1G5925 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | 15.1 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|------------------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.76 | 0.62 | ug/kg | |
| 319-84-6 | alpha-BHC | 1.3 | 0.76 | 0.62 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.76 | 0.68 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.76 | 0.73 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | 5.2 | 0.76 | 0.56 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 2.2 | 0.76 | 0.61 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | 8.8 | 0.76 | 0.34 | ug/kg | |
| 60-57-1 | Dieldrin | 3.0 | 0.76 | 0.52 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 108 ^b | 3.8 | 3.5 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 14.3 | 0.76 | 0.66 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 10.1 | 0.76 | 0.67 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.76 | 0.59 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.76 | 0.59 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.76 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.76 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II | 3.8 | 0.76 | 0.47 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.76 | 0.65 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | 5.6 | 0.76 | 0.53 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.60 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.76 | 0.55 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 83% | 52% | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 94% | 40% | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 101% | 73% | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 205% ^c | 85% | 10-179% |

(a) Had TBA cleanup.

(b) Result is from Run# 2

(c) Outside control limits due to matrix interference.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | |
| Lab Sample ID: | JD35850-1 | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/24/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 87.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475326.D | 1 | 12/07/21 13:50 | TL | 11/29/21 09:00 | OP36858 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 16 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 76% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 84% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 113% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | Date Sampled: | 11/23/21 |
| Lab Sample ID: | JD35850-1 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 87.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|------|-------|----|----------|-------------|--------|---|
| Aluminum | 5050 | 57 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Arsenic | 4.7 | 2.3 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Barium | 95.3 | 23 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.48 | 0.23 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.57 | 0.57 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Calcium | 7380 | 570 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Chromium | 33.2 | 1.1 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | 7.6 | 5.7 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Copper | 90.5 | 2.9 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 11900 | 57 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 526 | 2.3 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Magnesium | 3730 | 570 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 180 | 1.7 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | 2.5 | 0.31 | mg/kg | 10 | 11/30/21 | 11/30/21 | SB | SW846 7471B ¹ SW846 7471B ³ |
| Nickel | 29.6 | 4.6 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Silver | < 0.57 | 0.57 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Vanadium | 17.9 | 5.7 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 459 | 5.7 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND | SW846 6010D ² SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51507

(2) Instrument QC Batch: MA51539

(3) Prep QC Batch: MP30076

(4) Prep QC Batch: MP30111

RL = Reporting Limit

4.1

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-11-6.5-8.5 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35850-1 | | Date Received: 11/24/21 |
| Matrix: SO - Soil | | Percent Solids: 87.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.34 | 0.34 | mg/kg | 1 | 12/08/21 20:27 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 87.5 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

4.1

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-11-6.5-8.5 | |
| Lab Sample ID: | JD35850-1A | Date Sampled: 11/23/21 |
| Matrix: | SO - Soil | Date Received: 11/24/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 87.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50973.D | 1 | 12/21/21 14:42 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.05 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-11-6.5-8.5 | | Date Sampled: 11/23/21 |
| Lab Sample ID: JD35850-1A | | Date Received: 11/24/21 |
| Matrix: SO - Soil | | Percent Solids: 87.5 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 69% | | 40-140% |
| | 13C5-PFPeA | 70% | | 50-150% |
| | 13C5-PFHxA | 71% | | 50-150% |
| | 13C4-PFHpA | 73% | | 50-150% |
| | 13C8-PFOA | 72% | | 50-150% |
| | 13C9-PFNA | 73% | | 50-150% |
| | 13C6-PFDA | 75% | | 50-150% |
| | 13C7-PFUnDA | 69% | | 40-140% |
| | 13C2-PFDoDA | 61% | | 40-140% |
| | 13C2-PFTeDA | 68% | | 30-130% |
| | 13C3-PFBS | 71% | | 50-150% |
| | 13C3-PFHxS | 72% | | 50-150% |
| | 13C8-PFOS | 67% | | 50-150% |
| | 13C8-FOSA | 55% | | 30-130% |
| | d3-MeFOSAA | 86% | | 40-140% |
| | d5-EtFOSAA | 91% | | 40-140% |
| | 13C2-6:2FTS | 71% | | 50-150% |
| | 13C2-8:2FTS | 76% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | Date Sampled: | 11/24/21 |
| Lab Sample ID: | JD35850-2 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1C182930.D | 1 | 12/01/21 01:54 | PS | 11/24/21 19:46 | n/a | V1C7964 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 50.2 | 11 | 4.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.57 | 0.52 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.7 | 0.64 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.3 | 0.49 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.7 | 1.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.7 | 0.87 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.8 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.3 | 0.61 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.3 | 0.70 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.3 | 0.52 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.7 | 0.67 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.3 | 0.59 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.7 | 2.2 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.3 | 0.75 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.3 | 0.79 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.3 | 0.64 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.1 | 0.62 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.1 | 0.56 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.56 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.7 | 0.83 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.56 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.53 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.1 | 0.74 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.96 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.69 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.3 | 0.54 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.3 | 0.54 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.3 | 0.52 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.52 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.7 | 3.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.7 | 2.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | Date Sampled: | 11/24/21 |
| Lab Sample ID: | JD35850-2 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.3 | 1.6 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.7 | 1.6 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.3 | 1.0 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.53 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.7 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.7 | 3.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.3 | 0.46 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.3 | 0.68 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.3 | 0.66 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.1 | 0.60 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.7 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.7 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.3 | 0.55 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.3 | 0.63 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.87 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.7 | 0.78 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.3 | 0.55 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 1.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.52 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.52 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 108% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 95% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|------------|-------|----|
| | cycloalkane | 14.95 | 18 | ug/kg | J |
| 91-20-3 | Naphthalene | 18.04 | 14 | ug/kg | JN |
| 91-57-6 | Naphthalene, 2-methyl- | 19.01 | 13 | ug/kg | JN |
| | Naphthalene, methyl - isomer | 19.18 | 13 | ug/kg | J |
| | Total TIC, Volatile | | 58 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | Date Sampled: | 11/24/21 |
| Lab Sample ID: | JD35850-2 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | Z153640.D | 1 | 12/02/21 21:50 | KLS | 11/29/21 13:15 | OP36860 | EZ7633 |
| Run #2 | Z153939.D | 20 | 12/17/21 12:43 | JY | 11/29/21 13:15 | OP36860 | EZ7646 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|-------------------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 77 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 33 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 68 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 41 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 77 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 77 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 380 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 36 | ug/kg | |
| 108-95-2 | Phenol | ND | 77 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 29 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 23 | ug/kg | |
| 83-32-9 | Acenaphthene | 1120 | 38 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 6290 ^b | 770 | 390 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.2 | ug/kg | |
| 120-12-7 | Anthracene | 7000 ^b | 770 | 470 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 77 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 7870 ^b | 770 | 220 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 9330 ^b | 770 | 350 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 7170 ^b | 770 | 340 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 1540 | 38 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 1540 | 38 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 77 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 77 | 9.3 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 1330 | 77 | 5.2 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.5 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 77 | 9.1 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 14 | ug/kg | |
| 86-74-8 | Carbazole | 42.3 | 77 | 5.6 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | Date Sampled: | 11/24/21 |
| Lab Sample ID: | JD35850-2 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------------------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 77 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 7730 ^b | 770 | 240 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 77 | 8.2 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 77 | 17 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 77 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 77 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 38 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 38 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 77 | 32 | ug/kg | |
| 123-91-1 | 1,4-Dioxane ^c | ND | 38 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 343 | 38 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | 324 | 77 | 16 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 77 | 6.2 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 77 | 9.5 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 77 | 8.2 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 77 | 6.8 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 317 | 77 | 9.0 | ug/kg | |
| 206-44-0 | Fluoranthene | 14400 ^b | 770 | 340 | ug/kg | |
| 86-73-7 | Fluorene | 7210 ^b | 770 | 350 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 77 | 9.7 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 38 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 380 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1730 | 38 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 77 | 8.2 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 3300 | 38 | 8.7 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 9.0 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.6 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.9 | ug/kg | |
| 91-20-3 | Naphthalene | 1290 | 38 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 77 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 77 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 37400 ^b | 770 | 260 | ug/kg | |
| 129-00-0 | Pyrene | 29100 ^b | 770 | 250 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 62% | 88% | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-12-7.0-9.0 | |
| Lab Sample ID: JD35850-2 | Date Sampled: 11/24/21 |
| Matrix: SO - Soil | Date Received: 11/24/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 86.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 59% | 89% | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 71% | 113% | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 61% | 92% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | 107% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 62% | 96% | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|-----------------------|----------------------------------|-------|--------------|--------------|----------|
| 90-12-0 | Cyclohexane alkyl | 4.45 | 1400 | ug/kg | J |
| | Naphthalene, 1-methyl- | 6.17 | 1900 | ug/kg | JN |
| | Naphthalene dimethyl | 6.59 | 1100 | ug/kg | J |
| | Naphthalene dimethyl | 6.66 | 1500 | ug/kg | J |
| | Naphthalene dimethyl | 6.68 | 650 | ug/kg | J |
| | Unknown | 6.71 | 1100 | ug/kg | J |
| | Naphthalene dimethyl | 6.75 | 690 | ug/kg | J |
| | Naphthalene trimethyl | 7.25 | 690 | ug/kg | J |
| | Naphthalene trimethyl | 7.34 | 700 | ug/kg | J |
| | Isopropenylnaphthalene | 7.55 | 620 | ug/kg | J |
| | Alkane | 7.62 | 820 | ug/kg | J |
| | Unknown | 9.90 | 4900 | ug/kg | J |
| | Unknown | 10.31 | 490 | ug/kg | J |
| | Pyrene methyl | 10.98 | 690 | ug/kg | J |
| | Unknown | 11.26 | 4800 | ug/kg | J |
| | Unknown | 12.03 | 2200 | ug/kg | J |
| | Unknown acid | 12.28 | 4100 | ug/kg | J |
| | Unknown PAH substance | 14.10 | 2100 | ug/kg | J |
| | Unknown PAH substance | 14.33 | 5100 | ug/kg | J |
| | Unknown | 14.82 | 870 | ug/kg | J |
| | Unknown | 15.05 | 1500 | ug/kg | J |
| | Unknown | 15.21 | 2100 | ug/kg | J |
| Unknown | 15.60 | 2000 | ug/kg | J | |
| Unknown PAH substance | 15.70 | 920 | ug/kg | J | |
| Unknown PAH substance | 16.36 | 1200 | ug/kg | J | |
| | Total TIC, Semi-Volatile | | 44140 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-12-7.0-9.0 Lab Sample ID: JD35850-2 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/24/21 Date Received: 11/24/21 Percent Solids: 86.2 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105037.D | 1 | 12/11/21 03:54 | KLS | 11/29/21 13:15 | OP36860A | E4M4881 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.8 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 65% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | Date Sampled: | 11/24/21 |
| Lab Sample ID: | JD35850-2 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8151A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134402.D | 4 | 12/04/21 08:07 | RK | 11/30/21 09:50 | OP36859 | G3G4902 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.3 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 76 | 34 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 15 | 8.6 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 15 | 7.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-----------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 8% ^b | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 11% | | 10-125% |

- (a) Had TBA cleanup. Dilution required due to matrix interference.
 (b) Outside control limits due to matrix interference and dilution.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-12-7.0-9.0 Lab Sample ID: JD35850-2 Matrix: SO - Soil Method: SW846 8081B SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/24/21 Date Received: 11/24/21 Percent Solids: 86.2 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G171870.D | 1 | 12/08/21 19:25 | TL | 11/29/21 09:00 | OP36857 | G1G5929 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.7 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.74 | 0.61 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.74 | 0.60 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.74 | 0.67 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.74 | 0.71 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.74 | 0.54 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.74 | 0.60 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.74 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.74 | 0.51 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.74 | 0.68 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.74 | 0.65 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.74 | 0.65 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.74 | 0.57 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.74 | 0.58 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.74 | 0.42 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.74 | 0.43 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.74 | 0.46 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.74 | 0.64 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.74 | 0.52 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.59 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.74 | 0.53 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 111% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 89% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 110% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 386% ^b | | 10-179% |

- (a) Had TBA cleanup.
- (b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | |
| Lab Sample ID: | JD35850-2 | Date Sampled: 11/24/21 |
| Matrix: | SO - Soil | Date Received: 11/24/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475331.D | 1 | 12/07/21 15:16 | TL | 11/29/21 09:00 | OP36858 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.7 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 37 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 37 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 37 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 37 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 37 | 33 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 37 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 37 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 37 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 37 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 76% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 90% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 81% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 99% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | Date Sampled: | 11/24/21 |
| Lab Sample ID: | JD35850-2 | Date Received: | 11/24/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|------------------------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 6280 | 58 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Antimony | 2.9 | 2.3 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Arsenic | 8.5 | 2.3 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Barium | 240 | 23 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Beryllium | 0.36 | 0.23 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cadmium ^a | 5.1 | 2.9 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Calcium | 49000 | 2900 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Chromium | 23.8 | 1.2 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Cobalt | 7.1 | 5.8 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Copper ^a | 124 | 15 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Iron | 29300 | 290 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Lead ^a | 266 | 12 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Magnesium | 5970 | 580 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Manganese ^a | 323 | 8.7 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Mercury | 0.54 | 0.032 | mg/kg | 1 | 11/30/21 | 11/30/21 | SB SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 26.2 | 4.6 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Selenium ^a | < 12 | 12 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Silver ^a | < 2.9 | 2.9 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Thallium ^a | < 5.8 | 5.8 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |
| Vanadium | 25.5 | 5.8 | mg/kg | 1 | 12/03/21 | 12/03/21 | ND SW846 6010D ² | SW846 3050B ⁵ |
| Zinc | 1220 | 29 | mg/kg | 5 | 12/03/21 | 12/06/21 | ND SW846 6010D ³ | SW846 3050B ⁵ |

(1) Instrument QC Batch: MA51507

(2) Instrument QC Batch: MA51539

(3) Instrument QC Batch: MA51551

(4) Prep QC Batch: MP30076

(5) Prep QC Batch: MP30111

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-12-7.0-9.0 Lab Sample ID: JD35850-2 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/24/21 Date Received: 11/24/21 Percent Solids: 86.2 |
|---|--|

4.3

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|----------------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide ^a | < 0.30 | 0.30 | mg/kg | 1 | 12/08/21 20:29 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 86.2 | | % | 1 | 11/29/21 16:30 | BG | SM2540 G 18TH ED MOD |

(a) Sample prepped within holding time, but run out of holding time.

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-12-7.0-9.0 | |
| Lab Sample ID: | JD35850-2A | Date Sampled: 11/24/21 |
| Matrix: | SO - Soil | Date Received: 11/24/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q50944.D | 1 | 12/21/21 06:40 | AFL | 12/10/21 15:00 | F:OP88771 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.04 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.43 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.57 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.57 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.57 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.57 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-12-7.0-9.0 | | Date Sampled: 11/24/21 |
| Lab Sample ID: JD35850-2A | | Date Received: 11/24/21 |
| Matrix: SO - Soil | | Percent Solids: 86.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 76% | | 40-140% |
| | 13C5-PFPeA | 76% | | 50-150% |
| | 13C5-PFHxA | 76% | | 50-150% |
| | 13C4-PFHpA | 76% | | 50-150% |
| | 13C8-PFOA | 76% | | 50-150% |
| | 13C9-PFNA | 75% | | 50-150% |
| | 13C6-PFDA | 74% | | 50-150% |
| | 13C7-PFUnDA | 59% | | 40-140% |
| | 13C2-PFDoDA | 50% | | 40-140% |
| | 13C2-PFTeDA | 62% | | 30-130% |
| | 13C3-PFBS | 76% | | 50-150% |
| | 13C3-PFHxS | 76% | | 50-150% |
| | 13C8-PFOS | 73% | | 50-150% |
| | 13C8-FOSA | 59% | | 30-130% |
| | d3-MeFOSAA | 85% | | 40-140% |
| | d5-EtFOSAA | 94% | | 40-140% |
| | 13C2-6:2FTS | 75% | | 50-150% |
| | 13C2-8:2FTS | 78% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD35850

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 11/24/2021 5:03:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.7);

Cooler Temps (Corrected) °C: Cooler 1: (1.3);

| <u>Cooler Security</u> | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) _____ |
|--------------------|-----------------|-----------------|------------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD35850: Chain of Custody

Page 2 of 3



5.1

Job Change Order: JD35850

Requested Date: 12/13/2021 **Received Date:** 11/24/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD35850-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD35850: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

SGS Sample Receipt Summary

Job Number: JD35850

Client: SGS NJ

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 11/30/2021 3:00:00 PM

Delivery Method: FX

Airbill #'s: 5272 0636 6565

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | |
| 5. Cooler media | <u>Ice (Bag)</u> | |

Trip Blank Information

Y or N

N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W or S</u> | | <u>N/A</u> |
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: STEPHENP

Date: 11/30/2021 3:00:00 P

Reviewer: _____

Date: _____

JD35850: Chain of Custody

Page 2 of 2

5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech
2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD35939

Sampling Dates: 11/29/21 - 11/30/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report:

169



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Tetra Tech

Job No: JD35939

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | |
|------------|----------|----------|----------|----|------|------------------|
| JD35939-1 | 11/29/21 | 09:10 AV | 11/30/21 | SO | Soil | TT-SB-13-7.5-9.5 |
| JD35939-1A | 11/29/21 | 09:10 AV | 11/30/21 | SO | Soil | TT-SB-13-7.5-9.5 |
| JD35939-2 | 11/29/21 | 10:09 AV | 11/30/21 | SO | Soil | TT-SB-14-7.5-9.5 |
| JD35939-2A | 11/29/21 | 10:09 AV | 11/30/21 | SO | Soil | TT-SB-14-7.5-9.5 |
| JD35939-3 | 11/29/21 | 11:09 AV | 11/30/21 | SO | Soil | TT-SB-15-7.5-9.5 |
| JD35939-3A | 11/29/21 | 11:09 AV | 11/30/21 | SO | Soil | TT-SB-15-7.5-9.5 |
| JD35939-4 | 11/29/21 | 12:11 AV | 11/30/21 | SO | Soil | TT-SB-16-7.5-9.5 |
| JD35939-4A | 11/29/21 | 12:11 AV | 11/30/21 | SO | Soil | TT-SB-16-7.5-9.5 |
| JD35939-5 | 11/29/21 | 13:55 AV | 11/30/21 | SO | Soil | TT-SB-17-7.0-9.0 |
| JD35939-5A | 11/29/21 | 13:55 AV | 11/30/21 | SO | Soil | TT-SB-17-7.0-9.0 |
| JD35939-6 | 11/29/21 | 14:56 AV | 11/30/21 | SO | Soil | TT-SB-18-7.0-9.0 |
| JD35939-6A | 11/29/21 | 14:56 AV | 11/30/21 | SO | Soil | TT-SB-18-7.0-9.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

Tetra Tech

Job No: JD35939

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------|------------------|
| | Date | Time By | | Code | Type | |
| JD35939-7 | 11/30/21 | 08:48 AV | 11/30/21 | SO | Soil | TT-SB-19-7.0-9.0 |
| JD35939-7A | 11/30/21 | 08:48 AV | 11/30/21 | SO | Soil | TT-SB-19-7.0-9.0 |
| JD35939-8 | 11/30/21 | 09:36 AV | 11/30/21 | SO | Soil | TT-SB-20-6.5-8.5 |
| JD35939-8A | 11/30/21 | 09:36 AV | 11/30/21 | SO | Soil | TT-SB-20-6.5-8.5 |
| JD35939-9 | 11/30/21 | 10:28 AV | 11/30/21 | SO | Soil | TT-SB-21-6.5-8.5 |
| JD35939-9A | 11/30/21 | 10:28 AV | 11/30/21 | SO | Soil | TT-SB-21-6.5-8.5 |
| JD35939-10 | 11/30/21 | 11:33 AV | 11/30/21 | SO | Soil | TT-SB-22-6.5-8.5 |
| JD35939-10A | 11/30/21 | 11:33 AV | 11/30/21 | SO | Soil | TT-SB-22-6.5-8.5 |
| JD35939-11 | 11/30/21 | 13:30 AV | 11/30/21 | SO | Soil | TT-SB-23-7.5-9.5 |
| JD35939-11A | 11/30/21 | 13:30 AV | 11/30/21 | SO | Soil | TT-SB-23-7.5-9.5 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD35939

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/27/2021 5:55:33 P

On 11/30/2021, 22 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of -0.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35939 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: VI9769

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-1MS, JD35939-2DUP were used as the QC samples indicated.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88850

- The data for EPA 537M BY ID meets quality control requirements.
- JD35939-11A: Analysis performed at SGS Orlando, FL.
- JD35939-1A: Analysis performed at SGS Orlando, FL.
- JD35939-2A: Analysis performed at SGS Orlando, FL.
- JD35939-3A: Analysis performed at SGS Orlando, FL.
- JD35939-4A: Analysis performed at SGS Orlando, FL.
- JD35939-6A: Analysis performed at SGS Orlando, FL.
- JD35939-8A: Analysis performed at SGS Orlando, FL.
- JD35939-9A: Analysis performed at SGS Orlando, FL.
- JD35939-5A: Analysis performed at SGS Orlando, FL.
- JD35939-10A: Analysis performed at SGS Orlando, FL.
- JD35939-7A: Analysis performed at SGS Orlando, FL.

Monday, December 27, 2021

Page 1 of 5

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36903

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-1MS, JD35939-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Anthracene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike /Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Naphthalene, Phenanthrene are outside control limits for sample OP36903-MSD.
- JD35939-6 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-2 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-1 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-9 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-2 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-9 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- OP36903-MSD for Naphthalene: Outside of in house control limits.
- JD35939-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- OP36903-MSD for Phenanthrene: Outside of in house control limits.
- JD35939-6 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-10 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-6 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-7 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-7 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-7 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-8 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-8 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-10 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-9 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-1 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-5 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-3 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-10 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-11 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-11 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-11 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-8 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-4 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD35939-4 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD35939-5 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-5 for Caprolactam: Associated CCV outside of control limits high, sample was ND.

Monday, December 27, 2021

Page 2 of 5

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36903

- JD35939-4 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD35939-3 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36903A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-2MS, JD35939-2MSD were used as the QC samples indicated.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36907

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-1MS, JD35939-1MSD, OP36907-MSMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for delta-BHC, Endrin ketone are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aldrin, delta-BHC, Endrin aldehyde are outside control limits. Outside control limits due to matrix interference.
- JD35939-9: Had TBA cleanup.
- JD35939-1: Confirmation run.
- JD35939-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD35939-1 for Endosulfan-II: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35939-1 for Endrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35939-1 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD35939-1 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- OP36907-BS1 for Methoxychlor: Reported from 2nd signal. 1st signal used for confirmation.
- JD35939-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36908

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35939-2MS, JD35939-2MSD, OP36908-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD35939-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP36908-MB1 for Tetrachloro-m-xylene: Outside of in house control limits.
- RPD of OP36908-BSD for Aroclor 1260: Analytical precision exceeds in-house control limits.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36906

- All samples were extracted within the recommended method holding time.
- Sample(s) JD35939-3MS, JD35939-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD35939-3 for 2,4-DCAA: Outside control limits due to matrix interference.
- JD35939-9 for 2,4-DCAA: Outside control limits due to matrix interference.
- RPD of OP36906-BSD for 2,4-D: Analytical precision exceeds in-house control limits.
- RPD of OP36906-BSD for 2,4,5-T: Analytical precision exceeds in-house control limits.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30147

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-7MS, JD35939-7MSD, JD35939-7PS, JD35939-7SDL were used as the QC samples for metals.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Magnesium, Manganese, Potassium are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Selenium, Silver are outside control limits for sample MP30147-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP30147-SD1 for Cobalt: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30119

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35907-1MS, JD35907-1MSD were used as the QC samples for metals.

Matrix: SO

Batch ID: MP30120

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-4MS, JD35939-4MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24374

- Sample(s) JD35936-15DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37364

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35936-1DUP, JD35936-1MS were used as the QC samples for Cyanide.

Matrix: SO

Batch ID: GP37365

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35939-6DUP, JD35939-6MS, JD35939-7MS were used as the QC samples for Cyanide.

Monday, December 27, 2021

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SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD35939

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/27/2021 3:41:14

On 11/30/2021, 11 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD35939 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88850

Sample(s) JD36081-11MS, JD36081-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorotridecanoic acid are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Perfluorotridecanoic acid are outside control limits. Probable cause is due to matrix interference.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD35939-1 | TT-SB-13-7.5-9.5 | | | | | |
| Acenaphthene | | 1780 | 36 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 233 | 36 | 18 | ug/kg | SW846 8270E |
| Anthracene | | 3060 | 730 | 450 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 10000 | 730 | 210 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 9080 | 730 | 330 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 11000 | 730 | 320 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 6040 | 730 | 360 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 4110 | 730 | 340 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 104 | 73 | 5.0 | ug/kg | SW846 8270E |
| Carbazole | | 946 | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | | 9330 | 730 | 230 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 1530 | 730 | 320 | ug/kg | SW846 8270E |
| Dibenzofuran | | 802 | 73 | 15 | ug/kg | SW846 8270E |
| Fluoranthene | | 21600 | 730 | 320 | ug/kg | SW846 8270E |
| Fluorene | | 1420 | 36 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 6880 | 730 | 340 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 281 | 36 | 8.2 | ug/kg | SW846 8270E |
| Naphthalene | | 840 | 36 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | | 12400 | 730 | 240 | ug/kg | SW846 8270E |
| Pyrene | | 18800 | 730 | 230 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 52280 J | | | ug/kg | |
| Dieldrin ^a | | 5.3 | 0.68 | 0.47 | ug/kg | SW846 8081B |
| 4,4'-DDE ^a | | 2.2 | 0.68 | 0.59 | ug/kg | SW846 8081B |
| 4,4'-DDT | | 18.8 | 0.68 | 0.60 | ug/kg | SW846 8081B |
| Endrin ^a | | 10.4 | 0.68 | 0.53 | ug/kg | SW846 8081B |
| Endosulfan-II ^a | | 12.3 | 0.68 | 0.42 | ug/kg | SW846 8081B |
| Aluminum | | 7120 | 57 | | mg/kg | SW846 6010D |
| Arsenic | | 7.3 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 125 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.47 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | | 9560 | 570 | | mg/kg | SW846 6010D |
| Chromium | | 18.1 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | | 6.1 | 5.7 | | mg/kg | SW846 6010D |
| Copper | | 82.5 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 15700 | 57 | | mg/kg | SW846 6010D |
| Lead | | 532 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | | 3230 | 570 | | mg/kg | SW846 6010D |
| Manganese | | 239 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.41 | 0.036 | | mg/kg | SW846 7471B |
| Nickel | | 24.8 | 4.5 | | mg/kg | SW846 6010D |
| Potassium | | 1200 | 1100 | | mg/kg | SW846 6010D |
| Silver | | 0.74 | 0.57 | | mg/kg | SW846 6010D |
| Vanadium | | 21.2 | 5.7 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | | |
|------|--|-----|-----|--|-------|-------------|
| Zinc | | 360 | 5.7 | | mg/kg | SW846 6010D |
|------|--|-----|-----|--|-------|-------------|

JD35939-1A TT-SB-13-7.5-9.5

No hits reported in this sample.

JD35939-2 TT-SB-14-7.5-9.5

| | | | | | |
|----------------------------|--------|-------|-----|-------|--------------------|
| Benzo(a)anthracene | 10.0 J | 37 | 10 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 12.7 J | 74 | 8.6 | ug/kg | SW846 8270E |
| Fluoranthene | 17.1 J | 37 | 16 | ug/kg | SW846 8270E |
| Naphthalene | 10.2 J | 37 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | 12.3 J | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | 16.3 J | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 380 J | | | ug/kg | |
| Aluminum | 4360 | 55 | | mg/kg | SW846 6010D |
| Arsenic | 4.2 | 2.2 | | mg/kg | SW846 6010D |
| Barium | 35.8 | 22 | | mg/kg | SW846 6010D |
| Beryllium | 0.41 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | 1840 | 550 | | mg/kg | SW846 6010D |
| Chromium | 9.6 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | 5.9 | 5.5 | | mg/kg | SW846 6010D |
| Copper | 26.0 | 2.8 | | mg/kg | SW846 6010D |
| Iron | 11900 | 55 | | mg/kg | SW846 6010D |
| Lead | 33.4 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | 1160 | 550 | | mg/kg | SW846 6010D |
| Manganese | 181 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | 0.051 | 0.036 | | mg/kg | SW846 7471B |
| Nickel | 16.5 | 4.4 | | mg/kg | SW846 6010D |
| Vanadium | 15.4 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | 44.4 | 5.5 | | mg/kg | SW846 6010D |
| Cyanide | 0.32 | 0.29 | | mg/kg | SW846 9012B/LACHAT |

JD35939-2A TT-SB-14-7.5-9.5

| | | | | | |
|---|------|------|------|-------|----------------|
| Perfluorooctanesulfonic acid ^b | 0.86 | 0.55 | 0.28 | ug/kg | EPA 537M BY ID |
|---|------|------|------|-------|----------------|

JD35939-3 TT-SB-15-7.5-9.5

| | | | | | |
|----------------------|--------|----|-----|-------|-------------|
| Acetone | 6.9 J | 11 | 4.6 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | 68.5 | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 48.1 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 68.7 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 28.3 J | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 30.2 J | 36 | 17 | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|-------------------------------------|------------------|-----------------|-------|------|-------|--------------------|
| 1,1'-Biphenyl | | 5.4 J | 72 | 4.9 | ug/kg | SW846 8270E |
| Carbazole | | 5.4 J | 72 | 5.2 | ug/kg | SW846 8270E |
| Chrysene | | 72.8 | 36 | 11 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 10.2 J | 72 | 8.5 | ug/kg | SW846 8270E |
| Fluoranthene | | 176 | 36 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 27.8 J | 36 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 8.3 J | 36 | 8.2 | ug/kg | SW846 8270E |
| Naphthalene | | 30.7 J | 36 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | | 98.8 | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 156 | 36 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 610 J | | | ug/kg | |
| Aluminum | | 3340 | 57 | | mg/kg | SW846 6010D |
| Arsenic | | 4.9 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 60.2 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.31 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | | 948 | 570 | | mg/kg | SW846 6010D |
| Chromium | | 10.1 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | | 7.9 | 5.7 | | mg/kg | SW846 6010D |
| Copper | | 58.9 | 2.9 | | mg/kg | SW846 6010D |
| Iron | | 14900 | 57 | | mg/kg | SW846 6010D |
| Lead | | 160 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | | 989 | 570 | | mg/kg | SW846 6010D |
| Manganese | | 246 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.61 | 0.033 | | mg/kg | SW846 7471B |
| Nickel | | 17.2 | 4.6 | | mg/kg | SW846 6010D |
| Silver | | 0.63 | 0.57 | | mg/kg | SW846 6010D |
| Vanadium | | 16.0 | 5.7 | | mg/kg | SW846 6010D |
| Zinc | | 82.9 | 5.7 | | mg/kg | SW846 6010D |
| Cyanide | | 0.48 | 0.25 | | mg/kg | SW846 9012B/LACHAT |
| JD35939-3A TT-SB-15-7.5-9.5 | | | | | | |
| Perfluorooctanoic acid ^b | | 1.7 | 0.54 | 0.27 | ug/kg | EPA 537M BY ID |
| JD35939-4 TT-SB-16-7.5-9.5 | | | | | | |
| Total TIC, Semi-Volatile | | 400 J | | | ug/kg | |
| Aluminum | | 6240 | 57 | | mg/kg | SW846 6010D |
| Arsenic | | 2.4 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 33.7 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.51 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | | 1340 | 570 | | mg/kg | SW846 6010D |
| Chromium | | 14.9 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | | 6.6 | 5.7 | | mg/kg | SW846 6010D |
| Copper | | 11.7 | 2.8 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-----|-----|-------|-------------|
| Iron | | 11200 | 57 | | mg/kg | SW846 6010D |
| Lead | | 8.7 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | | 2470 | 570 | | mg/kg | SW846 6010D |
| Manganese | | 167 | 1.7 | | mg/kg | SW846 6010D |
| Nickel | | 23.0 | 4.6 | | mg/kg | SW846 6010D |
| Vanadium | | 21.2 | 5.7 | | mg/kg | SW846 6010D |
| Zinc | | 32.2 | 5.7 | | mg/kg | SW846 6010D |

JD35939-4A TT-SB-16-7.5-9.5

No hits reported in this sample.

JD35939-5 TT-SB-17-7.0-9.0

| | | | | | |
|----------------------------|--------|------|-----|-------|--------------------|
| Benzo(a)anthracene | 38.7 | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 29.4 J | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 36.2 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 21.3 J | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 17.6 J | 36 | 17 | ug/kg | SW846 8270E |
| Chrysene | 36.4 | 36 | 11 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 19.3 J | 72 | 8.4 | ug/kg | SW846 8270E |
| Fluoranthene | 67.0 | 36 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 22.5 J | 36 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | 41.8 | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | 65.4 | 36 | 11 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 350 J | | | ug/kg | |
| Aluminum | 4620 | 55 | | mg/kg | SW846 6010D |
| Arsenic | 2.4 | 2.2 | | mg/kg | SW846 6010D |
| Barium | 32.6 | 22 | | mg/kg | SW846 6010D |
| Beryllium | 0.44 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | 1890 | 550 | | mg/kg | SW846 6010D |
| Chromium | 12.9 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | 5.7 | 5.5 | | mg/kg | SW846 6010D |
| Copper | 13.0 | 2.7 | | mg/kg | SW846 6010D |
| Iron | 9690 | 55 | | mg/kg | SW846 6010D |
| Lead | 22.2 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | 2050 | 550 | | mg/kg | SW846 6010D |
| Manganese | 180 | 1.6 | | mg/kg | SW846 6010D |
| Nickel | 21.8 | 4.4 | | mg/kg | SW846 6010D |
| Vanadium | 17.5 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | 40.3 | 5.5 | | mg/kg | SW846 6010D |
| Cyanide | 0.32 | 0.30 | | mg/kg | SW846 9012B/LACHAT |

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD35939-5A TT-SB-17-7.0-9.0

No hits reported in this sample.

JD35939-6 TT-SB-18-7.0-9.0

| | | | | | |
|--------------------------|--------|-------|-----|-------|-------------|
| Acetone | 4.1 J | 9.3 | 3.9 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | 22.2 J | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 18.5 J | 37 | 16 | ug/kg | SW846 8270E |
| Chrysene | 17.5 J | 37 | 12 | ug/kg | SW846 8270E |
| Fluoranthene | 35.2 J | 37 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | 14.7 J | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | 28.7 J | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 430 J | | | ug/kg | |
| Aluminum | 7770 | 55 | | mg/kg | SW846 6010D |
| Arsenic | 7.7 | 2.2 | | mg/kg | SW846 6010D |
| Barium | 34.3 | 22 | | mg/kg | SW846 6010D |
| Beryllium | 0.60 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | 1960 | 550 | | mg/kg | SW846 6010D |
| Chromium | 16.6 | 1.1 | | mg/kg | SW846 6010D |
| Cobalt | 7.4 | 5.5 | | mg/kg | SW846 6010D |
| Copper | 19.1 | 2.7 | | mg/kg | SW846 6010D |
| Iron | 17900 | 55 | | mg/kg | SW846 6010D |
| Lead | 33.9 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | 2610 | 550 | | mg/kg | SW846 6010D |
| Manganese | 181 | 1.6 | | mg/kg | SW846 6010D |
| Mercury | 0.081 | 0.028 | | mg/kg | SW846 7471B |
| Nickel | 16.8 | 4.4 | | mg/kg | SW846 6010D |
| Potassium | 1420 | 1100 | | mg/kg | SW846 6010D |
| Silver | 0.66 | 0.55 | | mg/kg | SW846 6010D |
| Vanadium | 22.9 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | 53.8 | 5.5 | | mg/kg | SW846 6010D |

JD35939-6A TT-SB-18-7.0-9.0

No hits reported in this sample.

JD35939-7 TT-SB-19-7.0-9.0

| | | | | | |
|----------------------|--------|----|----|-------|-------------|
| Benzo(a)anthracene | 33.3 J | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 22.9 J | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 25.4 J | 36 | 16 | ug/kg | SW846 8270E |
| Chrysene | 27.6 J | 36 | 11 | ug/kg | SW846 8270E |
| Fluoranthene | 46.8 | 36 | 16 | ug/kg | SW846 8270E |
| Phenanthrene | 31.1 J | 36 | 12 | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-----|-------|-------------|
| Pyrene | | 46.1 | 36 | 11 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 280 J | | | ug/kg | |
| Aluminum | | 4200 | 56 | | mg/kg | SW846 6010D |
| Arsenic | | 2.9 | 2.2 | | mg/kg | SW846 6010D |
| Beryllium | | 0.33 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | | 632 | 560 | | mg/kg | SW846 6010D |
| Chromium | | 8.2 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 11.6 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 9140 | 56 | | mg/kg | SW846 6010D |
| Lead | | 20.4 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 1290 | 560 | | mg/kg | SW846 6010D |
| Manganese | | 141 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.64 | 0.036 | | mg/kg | SW846 7471B |
| Nickel | | 10.2 | 4.5 | | mg/kg | SW846 6010D |
| Vanadium | | 13.9 | 5.6 | | mg/kg | SW846 6010D |
| Zinc | | 27.8 | 5.6 | | mg/kg | SW846 6010D |

JD35939-7A TT-SB-19-7.0-9.0

No hits reported in this sample.

JD35939-8 TT-SB-20-6.5-8.5

| | | | | | | |
|--------------------------|--|--------|------|----|-------|-------------|
| Benzo(a)anthracene | | 54.8 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 48.9 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 60.4 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 36.5 J | 37 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 24.2 J | 37 | 17 | ug/kg | SW846 8270E |
| Chrysene | | 53.4 | 37 | 12 | ug/kg | SW846 8270E |
| Fluoranthene | | 110 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 39.4 | 37 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | | 66.3 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 91.4 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 640 J | | | ug/kg | |
| Aluminum | | 3720 | 56 | | mg/kg | SW846 6010D |
| Arsenic | | 5.3 | 2.2 | | mg/kg | SW846 6010D |
| Barium | | 365 | 22 | | mg/kg | SW846 6010D |
| Beryllium | | 0.35 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | | 1400 | 560 | | mg/kg | SW846 6010D |
| Chromium | | 12.3 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 61.1 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 11100 | 56 | | mg/kg | SW846 6010D |
| Lead | | 377 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 1760 | 560 | | mg/kg | SW846 6010D |
| Manganese | | 167 | 1.7 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35939
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-------|-----|-------|--------------------|
| | | 0.24 | 0.029 | | mg/kg | SW846 7471B |
| | | 17.9 | 4.5 | | mg/kg | SW846 6010D |
| | | 15.4 | 5.6 | | mg/kg | SW846 6010D |
| | | 323 | 5.6 | | mg/kg | SW846 6010D |
| | | 0.60 | 0.32 | | mg/kg | SW846 9012B/LACHAT |

JD35939-8A TT-SB-20-6.5-8.5

No hits reported in this sample.

JD35939-9 TT-SB-21-6.5-8.5

| | | | | | |
|--------------------------|--------|-------|-----|-------|-------------|
| Acetone | 9.7 | 9.4 | 3.9 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | 26.4 J | 38 | 11 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 29.2 J | 38 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 27.2 J | 38 | 17 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 20.3 J | 38 | 19 | ug/kg | SW846 8270E |
| Chrysene | 26.7 J | 38 | 12 | ug/kg | SW846 8270E |
| Fluoranthene | 24.3 J | 38 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 20.6 J | 38 | 18 | ug/kg | SW846 8270E |
| Phenanthrene | 23.1 J | 38 | 13 | ug/kg | SW846 8270E |
| Pyrene | 25.1 J | 38 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 360 J | | | ug/kg | |
| Aluminum | 9700 | 58 | | mg/kg | SW846 6010D |
| Arsenic | 4.4 | 2.3 | | mg/kg | SW846 6010D |
| Barium | 35.9 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.58 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | 1100 | 580 | | mg/kg | SW846 6010D |
| Chromium | 14.4 | 1.2 | | mg/kg | SW846 6010D |
| Cobalt | 6.6 | 5.8 | | mg/kg | SW846 6010D |
| Copper | 12.8 | 2.9 | | mg/kg | SW846 6010D |
| Iron | 16100 | 58 | | mg/kg | SW846 6010D |
| Lead | 16.4 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | 2300 | 580 | | mg/kg | SW846 6010D |
| Manganese | 273 | 1.8 | | mg/kg | SW846 6010D |
| Mercury | 0.067 | 0.029 | | mg/kg | SW846 7471B |
| Nickel | 13.8 | 4.7 | | mg/kg | SW846 6010D |
| Vanadium | 21.2 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | 35.8 | 5.8 | | mg/kg | SW846 6010D |

JD35939-9A TT-SB-21-6.5-8.5

No hits reported in this sample.

Summary of Hits

Job Number: JD35939
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD35939-10 TT-SB-22-6.5-8.5

| | | | | | |
|--------------------------|-------|-------|-----|-------|-------------|
| Acetone | 5.1 J | 8.9 | 3.7 | ug/kg | SW846 8260D |
| Total TIC, Semi-Volatile | 300 J | | | ug/kg | |
| Aluminum | 6780 | 58 | | mg/kg | SW846 6010D |
| Arsenic | 4.6 | 2.3 | | mg/kg | SW846 6010D |
| Barium | 32.8 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.54 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | 2650 | 580 | | mg/kg | SW846 6010D |
| Chromium | 12.7 | 1.2 | | mg/kg | SW846 6010D |
| Cobalt | 6.3 | 5.8 | | mg/kg | SW846 6010D |
| Copper | 13.0 | 2.9 | | mg/kg | SW846 6010D |
| Iron | 13600 | 58 | | mg/kg | SW846 6010D |
| Lead | 15.2 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | 2930 | 580 | | mg/kg | SW846 6010D |
| Manganese | 258 | 1.8 | | mg/kg | SW846 6010D |
| Mercury | 0.071 | 0.032 | | mg/kg | SW846 7471B |
| Nickel | 15.0 | 4.7 | | mg/kg | SW846 6010D |
| Potassium | 1200 | 1200 | | mg/kg | SW846 6010D |
| Vanadium | 20.4 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | 40.3 | 5.8 | | mg/kg | SW846 6010D |

JD35939-10A TT-SB-22-6.5-8.5

No hits reported in this sample.

JD35939-11 TT-SB-23-7.5-9.5

| | | | | | |
|--------------------------|-------|------|-----|-------|-------------|
| Acetone | 7.0 J | 9.5 | 3.9 | ug/kg | SW846 8260D |
| Total TIC, Semi-Volatile | 420 J | | | ug/kg | |
| Aluminum | 6910 | 58 | | mg/kg | SW846 6010D |
| Arsenic | 3.4 | 2.3 | | mg/kg | SW846 6010D |
| Barium | 42.4 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.52 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | 2540 | 580 | | mg/kg | SW846 6010D |
| Chromium | 13.3 | 1.2 | | mg/kg | SW846 6010D |
| Cobalt | 6.0 | 5.8 | | mg/kg | SW846 6010D |
| Copper | 10.4 | 2.9 | | mg/kg | SW846 6010D |
| Iron | 13300 | 58 | | mg/kg | SW846 6010D |
| Lead | 11.7 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | 2490 | 580 | | mg/kg | SW846 6010D |
| Manganese | 257 | 1.7 | | mg/kg | SW846 6010D |
| Nickel | 14.2 | 4.6 | | mg/kg | SW846 6010D |
| Vanadium | 19.2 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | 29.5 | 5.8 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD35939
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 11/29/21 thru 11/30/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD35939-11A TT-SB-23-7.5-9.5

No hits reported in this sample.

- (a) More than 40 % RPD for detected concentrations between the two GC columns.
- (b) Analysis performed at SGS Orlando, FL.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-1 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240285.D | 1 | 12/02/21 12:07 | PS | 12/01/21 08:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 8.7 | 3.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.43 | 0.39 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.3 | 0.48 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.7 | 0.37 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.3 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.3 | 0.66 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.7 | 2.1 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.7 | 0.46 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.7 | 0.53 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.7 | 0.40 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.3 | 0.51 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.7 | 0.45 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.3 | 1.7 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.7 | 0.57 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | 0.60 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.7 | 0.48 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.87 | 0.36 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.87 | 0.47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.87 | 0.43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.87 | 0.43 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.3 | 0.63 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.87 | 0.43 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.87 | 0.41 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.87 | 0.57 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.87 | 0.73 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.87 | 0.53 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.7 | 0.41 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.7 | 0.41 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.7 | 0.40 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.87 | 0.39 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.3 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.3 | 1.8 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-1 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.7 | 1.2 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.3 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.7 | 0.76 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.87 | 0.41 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.3 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.3 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.7 | 0.35 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.7 | 0.52 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.7 | 0.50 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.87 | 0.45 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.3 | 2.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.3 | 2.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.7 | 0.42 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.7 | 0.48 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.87 | 0.66 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.3 | 0.59 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.7 | 0.42 | ug/kg | |
| | m,p-Xylene | ND | 0.87 | 0.78 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.87 | 0.40 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.87 | 0.40 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 101% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-1 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115518.D | 1 | 12/05/21 18:32 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | 3E115530.D | 20 | 12/06/21 16:33 | KLS | 12/03/21 12:30 | OP36903 | E3E5279 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | 30.9 g | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------------------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 1780 | 36 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 233 | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 3060 ^b | 730 | 450 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 10000 ^b | 730 | 210 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 9080 ^b | 730 | 330 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 11000 ^b | 730 | 320 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 6040 ^b | 730 | 360 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 4110 ^b | 730 | 340 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 104 | 73 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 946 | 73 | 5.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-1 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------------------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 9330 ^b | 730 | 230 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 1530 ^b | 730 | 320 | ug/kg | |
| 132-64-9 | Dibenzofuran | 802 | 73 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 73 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | 21600 ^b | 730 | 320 | ug/kg | |
| 86-73-7 | Fluorene | 1420 | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 6880 ^b | 730 | 340 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 281 | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | 840 | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 12400 ^b | 730 | 240 | ug/kg | |
| 129-00-0 | Pyrene | 18800 ^b | 730 | 230 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 42% | 17% | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-13-7.5-9.5 | |
| Lab Sample ID: JD35939-1 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 88.9 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 44% | 26% | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 74% | 43% | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 49% | 27% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 53% | 33% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 54% | 34% | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|------------|-------|---|
| | Naphthacenedione | 14.43 | 1100 | ug/kg | J |
| | Unknown | 14.52 | 760 | ug/kg | J |
| | Unknown | 14.66 | 1800 | ug/kg | J |
| | Unknown PAH substance | 15.02 | 3100 | ug/kg | J |
| | Unknown | 15.16 | 2500 | ug/kg | J |
| | Unknown PAH substance | 15.25 | 9500 | ug/kg | J |
| | Unknown | 15.47 | 870 | ug/kg | J |
| | Unknown | 15.62 | 2100 | ug/kg | J |
| | Unknown | 15.65 | 1100 | ug/kg | J |
| | Unknown | 15.73 | 1500 | ug/kg | J |
| | Unknown | 15.85 | 940 | ug/kg | J |
| | Unknown | 15.94 | 1800 | ug/kg | J |
| | Unknown | 16.08 | 780 | ug/kg | J |
| | Unknown | 16.28 | 720 | ug/kg | J |
| | Unknown | 16.37 | 1200 | ug/kg | J |
| | Unknown | 16.45 | 2100 | ug/kg | J |
| | Unknown | 16.51 | 770 | ug/kg | J |
| | Unknown | 16.59 | 3600 | ug/kg | J |
| | Unknown PAH substance | 16.87 | 2100 | ug/kg | J |
| | Unknown PAH substance | 16.92 | 2500 | ug/kg | J |
| | Unknown PAH substance | 17.23 | 2800 | ug/kg | J |
| | Unknown | 17.49 | 850 | ug/kg | J |
| | Unknown | 17.63 | 690 | ug/kg | J |
| | Unknown | 17.92 | 1800 | ug/kg | J |
| | Dibenzopyrene | 18.77 | 5300 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 52280 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-13-7.5-9.5 | |
| Lab Sample ID: JD35939-1 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 88.9 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105270.D | 1 | 12/18/21 08:53 | CS | 12/03/21 12:30 | OP36903A | E4M4891 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 60% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 55% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-13-7.5-9.5 Lab Sample ID: JD35939-1 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 88.9 |
|--|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134411.D | 1 | 12/06/21 00:23 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.2 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.7 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.7 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 65% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 54% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-1 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171719.D | 1 | 12/03/21 23:54 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 ^a | 1G171902.D | 5 | 12/09/21 04:15 | CP | 12/02/21 12:00 | OP36907 | G1G5930 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.6 g | 10.0 ml |
| Run #2 | 16.6 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.68 | 0.56 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.68 | 0.55 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.68 | 0.61 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.68 | 0.65 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.68 | 0.50 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.68 | 0.55 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.68 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin ^b | 5.3 | 0.68 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.68 | 0.62 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^b | 2.2 | 0.68 | 0.59 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 18.8 | 0.68 | 0.60 | ug/kg | |
| 72-20-8 | Endrin ^b | 10.4 | 0.68 | 0.53 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.68 | 0.53 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.68 | 0.38 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.68 | 0.39 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^b | 12.3 | 0.68 | 0.42 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.68 | 0.58 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.68 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.54 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.68 | 0.49 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------------------|--------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 79% | 98% | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 77% | 76% | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 156% | 177% | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 1661% ^c | 1246% ^c | 10-179% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-13-7.5-9.5 | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-1 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 88.9 |
| Method: SW846 8082A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475256.D | 1 | 12/06/21 17:51 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.6 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 30 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 34 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 80% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 161% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 175% ^a | | 10-172% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-1 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 7120 | 57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 7.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 125 | 23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.47 | 0.23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.57 | 0.57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 9560 | 570 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 18.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 6.1 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 82.5 | 2.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 15700 | 57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 532 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 3230 | 570 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 239 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.41 | 0.036 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 24.8 | 4.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | 1200 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | 0.74 | 0.57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 21.2 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 360 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30119

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-13-7.5-9.5 | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-1 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 88.9 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.27 | 0.27 | mg/kg | 1 | 12/09/21 00:43 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 88.9 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.1

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-13-7.5-9.5 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-1A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 88.9 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51071.D | 1 | 12/23/21 00:39 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q714 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.06 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.41 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-13-7.5-9.5 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-1A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 88.9 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 91% | | 40-140% |
| | 13C5-PFPeA | 91% | | 50-150% |
| | 13C5-PFHxA | 91% | | 50-150% |
| | 13C4-PFHpA | 92% | | 50-150% |
| | 13C8-PFOA | 92% | | 50-150% |
| | 13C9-PFNA | 92% | | 50-150% |
| | 13C6-PFDA | 92% | | 50-150% |
| | 13C7-PFUnDA | 85% | | 40-140% |
| | 13C2-PFDoDA | 77% | | 40-140% |
| | 13C2-PFTeDA | 85% | | 30-130% |
| | 13C3-PFBS | 91% | | 50-150% |
| | 13C3-PFHxS | 92% | | 50-150% |
| | 13C8-PFOS | 90% | | 50-150% |
| | 13C8-FOSA | 77% | | 30-130% |
| | d3-MeFOSAA | 105% | | 40-140% |
| | d5-EtFOSAA | 109% | | 40-140% |
| | 13C2-6:2FTS | 87% | | 50-150% |
| | 13C2-8:2FTS | 93% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-14-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-2 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.0 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #2 | I240286.D | 1 | 12/02/21 12:28 | PS | 12/01/21 08:00 | n/a | VI9769 |

| Run #1 | Initial Weight |
|--------|----------------|
| Run #2 | 5.1 g |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 11 | 4.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.55 | 0.50 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.5 | 0.62 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.2 | 0.47 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.5 | 1.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.5 | 0.84 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.7 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.2 | 0.59 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.2 | 0.68 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.2 | 0.51 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.5 | 0.65 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.2 | 0.57 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.2 | 0.72 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.2 | 0.76 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.2 | 0.62 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.1 | 0.60 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.1 | 0.55 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.54 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.5 | 0.80 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.55 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.52 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.1 | 0.72 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.93 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.67 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.2 | 0.52 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.2 | 0.52 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.2 | 0.50 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.50 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.5 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.5 | 2.3 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-14-7.5-9.5 | |
| Lab Sample ID: JD35939-2 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 89.0 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.2 | 1.6 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.5 | 1.5 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.2 | 0.96 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.52 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.5 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.5 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.2 | 0.44 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.2 | 0.66 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.2 | 0.64 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.1 | 0.58 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.5 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.5 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.2 | 0.53 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.2 | 0.61 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.84 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.5 | 0.75 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.2 | 0.53 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 0.99 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.50 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.50 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 104% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-14-7.5-9.5 | |
| Lab Sample ID: | JD35939-2 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E SW846 3546 | Percent Solids: 89.0 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115502.D | 1 | 12/05/21 11:38 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 66 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 370 | 98 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.9 | ug/kg | |
| 120-12-7 | Anthracene | ND | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | 37 | 10 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | ND | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 74 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 74 | 5.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-14-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-2 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.0 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | ND | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 74 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 74 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.6 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 12.7 | 74 | 8.6 | ug/kg | J |
| 206-44-0 | Fluoranthene | 17.1 | 37 | 16 | ug/kg | J |
| 86-73-7 | Fluorene | ND | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.3 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 37 | 8.3 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.5 | ug/kg | |
| 91-20-3 | Naphthalene | 10.2 | 37 | 10 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 12.3 | 37 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 16.3 | 37 | 12 | ug/kg | J |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 40% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-14-7.5-9.5 Lab Sample ID: JD35939-2 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.0 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 41% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 62% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 47% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 49% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 47% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 230 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 420 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 380 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 380 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-14-7.5-9.5 | |
| Lab Sample ID: | JD35939-2 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 89.0 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105229.D | 1 | 12/17/21 14:55 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 59% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 57% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 55% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-14-7.5-9.5 Lab Sample ID: JD35939-2 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.0 |
|--|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134412.D | 1 | 12/06/21 00:50 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 19 | 8.3 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.7 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.7 | 1.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 61% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 48% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-14-7.5-9.5 | |
| Lab Sample ID: | JD35939-2 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 89.0 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475257.D | 1 | 12/06/21 18:09 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 64% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 71% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 158% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 163% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-14-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-2 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.0 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 4360 | 55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 4.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 35.8 | 22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.41 | 0.22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 1840 | 550 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 9.6 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 5.9 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 26.0 | 2.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 11900 | 55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 33.4 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 1160 | 550 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 181 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.051 | 0.036 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 16.5 | 4.4 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Silver | < 0.55 | 0.55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 15.4 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 44.4 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30119

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-14-7.5-9.5 | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-2 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 89.0 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | 0.32 | 0.29 | mg/kg | 1 | 12/09/21 00:45 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.3

Report of Analysis

| | |
|--|-------------------------|
| Client Sample ID: TT-SB-14-7.5-9.5 | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-2A | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 89.0 |
| Method: EPA 537M BY ID IN HOUSE | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51026.D | 1 | 12/22/21 05:25 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.03 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.86 | 0.55 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-14-7.5-9.5 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-2A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.0 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 108% | | 40-140% |
| | 13C5-PFPeA | 111% | | 50-150% |
| | 13C5-PFHxA | 112% | | 50-150% |
| | 13C4-PFHpA | 113% | | 50-150% |
| | 13C8-PFOA | 111% | | 50-150% |
| | 13C9-PFNA | 115% | | 50-150% |
| | 13C6-PFDA | 117% | | 50-150% |
| | 13C7-PFUnDA | 123% | | 40-140% |
| | 13C2-PFDoDA | 117% | | 40-140% |
| | 13C2-PFTeDA | 112% | | 30-130% |
| | 13C3-PFBS | 111% | | 50-150% |
| | 13C3-PFHxS | 112% | | 50-150% |
| | 13C8-PFOS | 109% | | 50-150% |
| | 13C8-FOSA | 122% | | 30-130% |
| | d3-MeFOSAA | 121% | | 40-140% |
| | d5-EtFOSAA | 117% | | 40-140% |
| | 13C2-6:2FTS | 107% | | 50-150% |
| | 13C2-8:2FTS | 108% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-15-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-3 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240287.D | 1 | 12/02/21 12:48 | PS | 12/01/21 08:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 6.9 | 11 | 4.6 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.56 | 0.51 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.6 | 0.63 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.2 | 0.48 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.6 | 1.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.6 | 0.86 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.7 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.2 | 0.60 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.2 | 0.69 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.2 | 0.51 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.6 | 0.66 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.2 | 0.58 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.6 | 2.2 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.2 | 0.74 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.2 | 0.78 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.2 | 0.63 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.1 | 0.61 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.1 | 0.56 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.55 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.6 | 0.81 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.55 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.53 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.1 | 0.73 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.94 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.68 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.2 | 0.53 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.2 | 0.53 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.2 | 0.51 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.51 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.6 | 3.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.6 | 2.4 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-15-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-3 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.2 | 1.6 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.6 | 1.6 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.2 | 0.98 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.53 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.6 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.6 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.2 | 0.45 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.2 | 0.67 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.2 | 0.65 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.1 | 0.59 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.6 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.6 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.2 | 0.54 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.2 | 0.62 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.85 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.6 | 0.77 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.2 | 0.54 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 1.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.51 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.51 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 90% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-15-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-3 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115503.D | 1 | 12/05/21 12:07 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 360 | 96 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | ND | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 68.5 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 48.1 | 36 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 68.7 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 28.3 | 36 | 18 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | 30.2 | 36 | 17 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.8 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 5.4 | 72 | 4.9 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.6 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 5.4 | 72 | 5.2 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-15-7.5-9.5 | |
| Lab Sample ID: JD35939-3 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 89.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 72 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 72.8 | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 72 | 7.7 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 72 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 72 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 72 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 72 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 72 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 72 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 72 | 9.0 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 72 | 7.7 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 72 | 6.4 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10.2 | 72 | 8.5 | ug/kg | J |
| 206-44-0 | Fluoranthene | 176 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 72 | 9.1 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 27.8 | 36 | 17 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 72 | 7.7 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 8.3 | 36 | 8.2 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.5 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.0 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | 30.7 | 36 | 10 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 72 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 72 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 98.8 | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 156 | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 30% | | 10-109% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-15-7.5-9.5 Lab Sample ID: JD35939-3 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.3 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 30% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 47% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 34% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 36% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 33% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 200 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 1600 | ug/kg | J |
| 57-10-3 | n-Hexadecanoic acid | 10.18 | 150 | ug/kg | JN |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 460 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 610 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-15-7.5-9.5 | |
| Lab Sample ID: JD35939-3 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 89.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105230.D | 1 | 12/17/21 15:16 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 42% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 42% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 39% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-15-7.5-9.5 | |
| Lab Sample ID: JD35939-3 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 89.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134413.D | 1 | 12/06/21 01:18 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.7 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-------------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 126% ^a | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 43% | | 10-125% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|--------------------------|---|------------------------|----------|
| Client Sample ID: | TT-SB-15-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-3 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.3 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171723.D | 1 | 12/04/21 01:07 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.74 | 0.61 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.74 | 0.60 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.74 | 0.67 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.74 | 0.71 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.74 | 0.54 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.74 | 0.59 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.74 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.74 | 0.51 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.74 | 0.68 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.74 | 0.65 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.74 | 0.65 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.74 | 0.57 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.74 | 0.58 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.74 | 0.42 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.74 | 0.42 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.74 | 0.46 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.74 | 0.64 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.74 | 0.52 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.59 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.74 | 0.53 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 99% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 95% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 101% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 99% | | 10-179% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-15-7.5-9.5 | |
| Lab Sample ID: | JD35939-3 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 89.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475260.D | 1 | 12/06/21 19:01 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 37 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 37 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 37 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 37 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 37 | 33 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 37 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 37 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 37 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 37 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 93% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 89% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 88% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-15-7.5-9.5 Lab Sample ID: JD35939-3 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.3 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 3340 | 57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Arsenic | 4.9 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Barium | 60.2 | 23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.31 | 0.23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.57 | 0.57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Calcium | 948 | 570 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Chromium | 10.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | 7.9 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Copper | 58.9 | 2.9 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 14900 | 57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 160 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Magnesium | 989 | 570 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 246 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | 0.61 | 0.033 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ SW846 7471B ³ |
| Nickel | 17.2 | 4.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Silver | 0.63 | 0.57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Vanadium | 16.0 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 82.9 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA51520
- (2) Instrument QC Batch: MA51546
- (3) Prep QC Batch: MP30119
- (4) Prep QC Batch: MP30147

RL = Reporting Limit

4.5

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-15-7.5-9.5 Lab Sample ID: JD35939-3 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.3 |
|---|--|

4.5

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | 0.48 | 0.25 | mg/kg | 1 | 12/09/21 00:46 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.3 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-15-7.5-9.5 | |
| Lab Sample ID: JD35939-3A | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 89.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51027.D | 1 | 12/22/21 05:42 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.07 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.41 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | 1.7 | 0.54 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.54 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.54 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.54 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-15-7.5-9.5 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-3A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.6

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 106% | | 40-140% |
| | 13C5-PFPeA | 108% | | 50-150% |
| | 13C5-PFHxA | 109% | | 50-150% |
| | 13C4-PFHpA | 111% | | 50-150% |
| | 13C8-PFOA | 111% | | 50-150% |
| | 13C9-PFNA | 114% | | 50-150% |
| | 13C6-PFDA | 115% | | 50-150% |
| | 13C7-PFUnDA | 118% | | 40-140% |
| | 13C2-PFDoDA | 112% | | 40-140% |
| | 13C2-PFTeDA | 110% | | 30-130% |
| | 13C3-PFBS | 108% | | 50-150% |
| | 13C3-PFHxS | 113% | | 50-150% |
| | 13C8-PFOS | 110% | | 50-150% |
| | 13C8-FOSA | 113% | | 30-130% |
| | d3-MeFOSAA | 111% | | 40-140% |
| | d5-EtFOSAA | 107% | | 40-140% |
| | 13C2-6:2FTS | 105% | | 50-150% |
| | 13C2-8:2FTS | 107% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-4 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240288.D | 1 | 12/02/21 13:09 | PS | 12/01/21 08:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.7 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 8.4 | 3.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.42 | 0.38 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.2 | 0.47 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.7 | 0.36 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.2 | 1.1 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.2 | 0.64 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.4 | 2.0 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.7 | 0.45 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.7 | 0.52 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.7 | 0.39 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.2 | 0.50 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.7 | 0.44 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.2 | 1.6 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.7 | 0.55 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | 0.58 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.7 | 0.47 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.84 | 0.35 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.84 | 0.46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.84 | 0.42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.84 | 0.42 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.2 | 0.61 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.84 | 0.42 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.84 | 0.40 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.84 | 0.55 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.84 | 0.71 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.84 | 0.51 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.7 | 0.40 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.7 | 0.40 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.7 | 0.38 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.84 | 0.38 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.2 | 2.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.2 | 1.8 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-16-7.5-9.5 | |
| Lab Sample ID: JD35939-4 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 88.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.7 | 1.2 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.2 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.7 | 0.74 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.84 | 0.39 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.2 | 1.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.2 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.7 | 0.34 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.7 | 0.50 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.7 | 0.49 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.84 | 0.44 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.2 | 2.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.2 | 2.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.7 | 0.41 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.7 | 0.47 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.84 | 0.64 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.2 | 0.58 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.7 | 0.40 | ug/kg | |
| | m,p-Xylene | ND | 0.84 | 0.75 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.84 | 0.39 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.84 | 0.39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 105% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-4 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115504.D | 1 | 12/05/21 12:32 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.4 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 38 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 360 | 96 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.7 | ug/kg | |
| 120-12-7 | Anthracene | ND | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 36 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.8 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 72 | 4.9 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 8.9 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.5 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 72 | 5.2 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-4 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 72 | 14 | ug/kg | |
| 218-01-9 | Chrysene | ND | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 72 | 7.7 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 72 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 72 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 72 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 72 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 72 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 72 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 72 | 8.9 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 72 | 7.6 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 72 | 6.4 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 72 | 8.4 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 72 | 9.1 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 72 | 7.7 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.1 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.5 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.0 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 72 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 72 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | ND | 36 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 35% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-16-7.5-9.5 Lab Sample ID: JD35939-4 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 88.7 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 36% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 54% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 41% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 42% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 45% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 200 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 210 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 400 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 400 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.7

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | |
| Lab Sample ID: | JD35939-4 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 88.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105231.D | 1 | 12/17/21 15:36 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 50% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 47% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 54% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-16-7.5-9.5 | |
| Lab Sample ID: JD35939-4 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 88.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134416.D | 1 | 12/06/21 02:41 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.0 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.6 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.6 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 26% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 33% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-4 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.7 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171724.D | 1 | 12/04/21 01:25 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.6 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.68 | 0.56 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.68 | 0.55 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.68 | 0.61 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.68 | 0.65 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.68 | 0.50 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.68 | 0.55 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.68 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.68 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.68 | 0.62 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.68 | 0.60 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.68 | 0.60 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.68 | 0.53 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.68 | 0.53 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.68 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.68 | 0.39 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.68 | 0.42 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.68 | 0.59 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.68 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.54 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.68 | 0.49 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 96% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 99% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 81% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 89% | | 10-179% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-4 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.7 |
| Method: | SW846 8082A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475261.D | 1 | 12/06/21 19:19 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.6 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 30 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 34 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 103% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 101% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 109% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 102% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-4 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|---------|-------|-------|----|----------|-------------|--------|--------------------------|
| Aluminum | 6240 | 57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Arsenic | 2.4 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Barium | 33.7 | 23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Beryllium | 0.51 | 0.23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Cadmium | < 0.57 | 0.57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Calcium | 1340 | 570 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Chromium | 14.9 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Cobalt | 6.6 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Copper | 11.7 | 2.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Iron | 11200 | 57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Lead | 8.7 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Magnesium | 2470 | 570 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Manganese | 167 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Mercury | < 0.037 | 0.037 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ |
| Nickel | 23.0 | 4.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Silver | < 0.57 | 0.57 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Vanadium | 21.2 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Zinc | 32.2 | 5.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-16-7.5-9.5 | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-4 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 88.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.32 | 0.32 | mg/kg | 1 | 12/09/21 00:47 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 88.7 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.7

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-16-7.5-9.5 | |
| Lab Sample ID: | JD35939-4A | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 88.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51073.D | 1 | 12/23/21 01:12 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q714 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.94 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.44 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.58 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-16-7.5-9.5 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-4A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 88.7 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 103% | | 40-140% |
| | 13C5-PFPeA | 103% | | 50-150% |
| | 13C5-PFHxA | 103% | | 50-150% |
| | 13C4-PFHpA | 103% | | 50-150% |
| | 13C8-PFOA | 105% | | 50-150% |
| | 13C9-PFNA | 105% | | 50-150% |
| | 13C6-PFDA | 106% | | 50-150% |
| | 13C7-PFUnDA | 104% | | 40-140% |
| | 13C2-PFDoDA | 106% | | 40-140% |
| | 13C2-PFTeDA | 103% | | 30-130% |
| | 13C3-PFBS | 103% | | 50-150% |
| | 13C3-PFHxS | 104% | | 50-150% |
| | 13C8-PFOS | 104% | | 50-150% |
| | 13C8-FOSA | 107% | | 30-130% |
| | d3-MeFOSAA | 98% | | 40-140% |
| | d5-EtFOSAA | 97% | | 40-140% |
| | 13C2-6:2FTS | 99% | | 50-150% |
| | 13C2-8:2FTS | 101% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-17-7.0-9.0 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-5 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240289.D | 1 | 12/02/21 13:29 | PS | 12/01/21 08:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.6 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 8.4 | 3.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.42 | 0.38 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.2 | 0.47 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.7 | 0.36 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.2 | 1.1 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.2 | 0.64 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.4 | 2.0 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.7 | 0.45 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.7 | 0.52 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.7 | 0.39 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.2 | 0.50 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.7 | 0.44 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.2 | 1.6 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.7 | 0.55 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | 0.58 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.7 | 0.47 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.84 | 0.35 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.84 | 0.46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.84 | 0.42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.84 | 0.41 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.2 | 0.61 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.84 | 0.42 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.84 | 0.39 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.84 | 0.55 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.84 | 0.70 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.84 | 0.51 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.7 | 0.40 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.7 | 0.40 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.7 | 0.38 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.84 | 0.38 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.2 | 2.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.2 | 1.8 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-17-7.0-9.0 | |
| Lab Sample ID: | JD35939-5 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 90.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.7 | 1.2 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.2 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.7 | 0.73 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.84 | 0.39 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.2 | 1.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.2 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.7 | 0.34 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.7 | 0.50 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.7 | 0.49 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.84 | 0.44 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.2 | 2.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.2 | 2.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.7 | 0.41 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.7 | 0.46 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.84 | 0.64 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.2 | 0.57 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.7 | 0.40 | ug/kg | |
| | m,p-Xylene | ND | 0.84 | 0.75 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.84 | 0.38 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.84 | 0.38 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-17-7.0-9.0 | |
| Lab Sample ID: | JD35939-5 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E SW846 3546 | Percent Solids: 90.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115505.D | 1 | 12/05/21 12:57 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 38 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 29 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 360 | 96 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.7 | ug/kg | |
| 120-12-7 | Anthracene | ND | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 38.7 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 29.4 | 36 | 16 | ug/kg | J |
| 205-99-2 | Benzo(b)fluoranthene | 36.2 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 21.3 | 36 | 18 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | 17.6 | 36 | 17 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.7 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 72 | 4.9 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 8.9 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.5 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 72 | 5.2 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-17-7.0-9.0 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-5 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 72 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 36.4 | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 72 | 7.7 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 72 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 72 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 72 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 72 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 72 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 72 | 5.8 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 72 | 8.9 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 72 | 7.6 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 72 | 6.4 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 19.3 | 72 | 8.4 | ug/kg | J |
| 206-44-0 | Fluoranthene | 67.0 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 72 | 9.1 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 22.5 | 36 | 17 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 72 | 7.7 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.1 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.5 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.0 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 72 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 72 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 41.8 | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 65.4 | 36 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 44% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-5 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 46% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 50% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 52% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 62% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 220 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 290 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 350 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 350 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | |
| Lab Sample ID: JD35939-5 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105232.D | 1 | 12/17/21 15:57 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 60% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 73% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | |
| Lab Sample ID: JD35939-5 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134421.D | 1 | 12/06/21 04:59 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.9 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 40% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 47% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | |
| Lab Sample ID: JD35939-5 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171725.D | 1 | 12/04/21 01:44 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.9 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.66 | 0.54 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.66 | 0.53 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.66 | 0.59 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.66 | 0.63 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.66 | 0.48 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.66 | 0.53 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.66 | 0.30 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.66 | 0.45 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.66 | 0.60 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.66 | 0.57 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.66 | 0.58 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.66 | 0.51 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.66 | 0.51 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.66 | 0.37 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.66 | 0.38 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.66 | 0.41 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.66 | 0.56 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.66 | 0.46 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.52 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.66 | 0.47 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 16 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 83% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 86% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 67% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 75% | | 10-179% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | |
| Lab Sample ID: JD35939-5 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8082A SW846 3546 | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475262.D | 1 | 12/06/21 19:36 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.9 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 33 | 15 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 33 | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 33 | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 33 | 13 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 33 | 29 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 33 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 33 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 33 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 33 | 21 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 82% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 80% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 66% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 83% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-17-7.0-9.0 Lab Sample ID: JD35939-5 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 90.3 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|---------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 4620 | 55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Arsenic | 2.4 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Barium | 32.6 | 22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.44 | 0.22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Calcium | 1890 | 550 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Chromium | 12.9 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | 5.7 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Copper | 13.0 | 2.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 9690 | 55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 22.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Magnesium | 2050 | 550 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 180 | 1.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | < 0.033 | 0.033 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ SW846 7471B ³ |
| Nickel | 21.8 | 4.4 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Silver | < 0.55 | 0.55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Vanadium | 17.5 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 40.3 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA51520
- (2) Instrument QC Batch: MA51546
- (3) Prep QC Batch: MP30120
- (4) Prep QC Batch: MP30147

RL = Reporting Limit

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-5 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.9

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | 0.32 | 0.30 | mg/kg | 1 | 12/09/21 00:49 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.3 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | |
| Lab Sample ID: JD35939-5A | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51029.D | 1 | 12/22/21 06:15 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.09 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.40 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.53 | 0.28 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.53 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.26 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.26 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-17-7.0-9.0 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-5A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.10

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 116% | | 40-140% |
| | 13C5-PFPeA | 118% | | 50-150% |
| | 13C5-PFHxA | 119% | | 50-150% |
| | 13C4-PFHpA | 119% | | 50-150% |
| | 13C8-PFOA | 120% | | 50-150% |
| | 13C9-PFNA | 122% | | 50-150% |
| | 13C6-PFDA | 124% | | 50-150% |
| | 13C7-PFUnDA | 126% | | 40-140% |
| | 13C2-PFDoDA | 118% | | 40-140% |
| | 13C2-PFTeDA | 120% | | 30-130% |
| | 13C3-PFBS | 117% | | 50-150% |
| | 13C3-PFHxS | 119% | | 50-150% |
| | 13C8-PFOS | 116% | | 50-150% |
| | 13C8-FOSA | 130% | | 30-130% |
| | d3-MeFOSAA | 135% | | 40-140% |
| | d5-EtFOSAA | 132% | | 40-140% |
| | 13C2-6:2FTS | 114% | | 50-150% |
| | 13C2-8:2FTS | 115% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18-7.0-9.0 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-6 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240291.D | 1 | 12/02/21 14:10 | PS | 12/01/21 08:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 4.1 | 9.3 | 3.9 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.71 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.3 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.55 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.48 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.61 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.52 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.93 | 0.39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.93 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.68 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.93 | 0.46 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.93 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.93 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.93 | 0.78 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.93 | 0.57 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.44 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.93 | 0.42 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-18-7.0-9.0 | |
| Lab Sample ID: | JD35939-6 | Date Sampled: 11/29/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.82 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.93 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.54 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.93 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.45 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.93 | 0.71 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.64 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.93 | 0.84 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.93 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.93 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 87% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18-7.0-9.0 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-6 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115506.D | 1 | 12/05/21 13:23 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 66 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 370 | 99 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 8.0 | ug/kg | |
| 120-12-7 | Anthracene | ND | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 22.2 | 37 | 10 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | ND | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 18.5 | 37 | 16 | ug/kg | J |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 74 | 5.1 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.2 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 74 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18-7.0-9.0 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-6 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 17.5 | 37 | 12 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 74 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 74 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.9 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.6 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 74 | 8.7 | ug/kg | |
| 206-44-0 | Fluoranthene | 35.2 | 37 | 17 | ug/kg | J |
| 86-73-7 | Fluorene | ND | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.4 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 37 | 8.4 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 14.7 | 37 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 28.7 | 37 | 12 | ug/kg | J |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 35% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-18-7.0-9.0 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-6 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 36% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 56% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 41% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 42% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 47% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 230 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 280 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 430 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 430 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-18-7.0-9.0 Lab Sample ID: JD35939-6 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.2 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105233.D | 1 | 12/17/21 16:18 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 51% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 49% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 57% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.11

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-18-7.0-9.0 Lab Sample ID: JD35939-6 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/29/21 Date Received: 11/30/21 Percent Solids: 89.2 |
|--|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134422.D | 1 | 12/06/21 05:26 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.7 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.5 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.4 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.4 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 36% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 35% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-18-7.0-9.0 | |
| Lab Sample ID: JD35939-6 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 89.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171726.D | 1 | 12/04/21 02:02 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.72 | 0.60 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.72 | 0.59 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.72 | 0.65 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.72 | 0.69 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.72 | 0.53 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.72 | 0.58 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.72 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.72 | 0.50 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.72 | 0.66 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.72 | 0.63 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.72 | 0.64 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.72 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.72 | 0.56 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.72 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.72 | 0.42 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.72 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.72 | 0.62 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.72 | 0.51 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.58 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.72 | 0.52 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 96% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 99% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 91% | | 10-179% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-18-7.0-9.0 | |
| Lab Sample ID: JD35939-6 | Date Sampled: 11/29/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8082A SW846 3546 | Percent Solids: 89.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475267.D | 1 | 12/06/21 21:04 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 111% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 106% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 119% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 103% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18-7.0-9.0 | Date Sampled: | 11/29/21 |
| Lab Sample ID: | JD35939-6 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 7770 | 55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 7.7 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 34.3 | 22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.60 | 0.22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 1960 | 550 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 16.6 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 7.4 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 19.1 | 2.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 17900 | 55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 33.9 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 2610 | 550 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 181 | 1.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.081 | 0.028 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 16.8 | 4.4 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | 1420 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Silver | 0.66 | 0.55 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 22.9 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 53.8 | 5.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-18-7.0-9.0 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-6 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.11

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|------------------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.31 | 0.31 | mg/kg | 1 | 12/09/21 01:00 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.2 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

4.12

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-18-7.0-9.0 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-6A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51030.D | 1 | 12/22/21 06:31 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.43 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-18-7.0-9.0 | | Date Sampled: 11/29/21 |
| Lab Sample ID: JD35939-6A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.12

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 119% | | 40-140% |
| | 13C5-PFPeA | 122% | | 50-150% |
| | 13C5-PFHxA | 122% | | 50-150% |
| | 13C4-PFHpA | 124% | | 50-150% |
| | 13C8-PFOA | 123% | | 50-150% |
| | 13C9-PFNA | 125% | | 50-150% |
| | 13C6-PFDA | 129% | | 50-150% |
| | 13C7-PFUnDA | 133% | | 40-140% |
| | 13C2-PFDoDA | 121% | | 40-140% |
| | 13C2-PFTeDA | 122% | | 30-130% |
| | 13C3-PFBS | 120% | | 50-150% |
| | 13C3-PFHxS | 121% | | 50-150% |
| | 13C8-PFOS | 122% | | 50-150% |
| | 13C8-FOSA | 126% | | 30-130% |
| | d3-MeFOSAA | 135% | | 40-140% |
| | d5-EtFOSAA | 134% | | 40-140% |
| | 13C2-6:2FTS | 117% | | 50-150% |
| | 13C2-8:2FTS | 119% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-7 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240290.D | 1 | 12/02/21 13:49 | PS | 12/01/21 09:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 8.6 | 3.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.43 | 0.39 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.3 | 0.48 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.7 | 0.37 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.3 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.3 | 0.66 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.6 | 2.1 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.7 | 0.46 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.7 | 0.53 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.7 | 0.40 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.3 | 0.51 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.7 | 0.45 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.3 | 1.7 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.7 | 0.57 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | 0.60 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.7 | 0.48 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.86 | 0.36 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.86 | 0.47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.86 | 0.43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.86 | 0.43 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.3 | 0.63 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.86 | 0.43 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.86 | 0.41 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.86 | 0.56 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.86 | 0.72 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.86 | 0.53 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.7 | 0.41 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.7 | 0.41 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.7 | 0.39 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.86 | 0.39 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.3 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.3 | 1.8 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-19-7.0-9.0 | |
| Lab Sample ID: JD35939-7 | Date Sampled: 11/30/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 89.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.7 | 1.2 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.3 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.7 | 0.75 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.86 | 0.40 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.3 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.3 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.7 | 0.35 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.7 | 0.52 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.7 | 0.50 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.86 | 0.45 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.3 | 2.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.3 | 2.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.7 | 0.42 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.7 | 0.48 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.86 | 0.66 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.3 | 0.59 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.7 | 0.41 | ug/kg | |
| | m,p-Xylene | ND | 0.86 | 0.77 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.86 | 0.39 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.86 | 0.39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-7 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115509.D | 1 | 12/05/21 14:40 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.5 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 71 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 30 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 63 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 38 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 71 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 71 | 29 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 360 | 95 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 33 | ug/kg | |
| 108-95-2 | Phenol | ND | 71 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.7 | ug/kg | |
| 120-12-7 | Anthracene | ND | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 71 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 33.3 | 36 | 10 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | 22.9 | 36 | 16 | ug/kg | J |
| 205-99-2 | Benzo(b)fluoranthene | 25.4 | 36 | 16 | ug/kg | J |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 71 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 71 | 8.7 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 71 | 4.9 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 8.8 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 71 | 8.5 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 71 | 5.2 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-7 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 71 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 27.6 | 36 | 11 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 71 | 7.6 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 71 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 71 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 71 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 71 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 71 | 14 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 71 | 5.8 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 71 | 8.9 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 71 | 7.6 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 71 | 6.3 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 71 | 8.3 | ug/kg | |
| 206-44-0 | Fluoranthene | 46.8 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 71 | 9.0 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 71 | 7.6 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.0 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.4 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 8.9 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 71 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 71 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 31.1 | 36 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 46.1 | 36 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 34% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-19-7.0-9.0 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-7 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.13

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 36% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 54% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 42% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 43% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 46% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 200 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 220 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 280 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 280 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | |
| Lab Sample ID: | JD35939-7 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105234.D | 1 | 12/17/21 16:39 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 53% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 50% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 57% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-19-7.0-9.0 | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-7 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 89.2 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134423.D | 1 | 12/06/21 05:54 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.3 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.7 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.4 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.4 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 47% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 45% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-7 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171727.D | 1 | 12/04/21 02:20 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.4 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.68 | 0.56 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.68 | 0.56 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.68 | 0.62 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.68 | 0.66 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.68 | 0.50 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.68 | 0.55 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.68 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.68 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.68 | 0.63 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.68 | 0.60 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.68 | 0.61 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.68 | 0.53 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.68 | 0.53 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.68 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.68 | 0.39 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.68 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.68 | 0.59 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.68 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.54 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.68 | 0.49 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 89% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 92% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 78% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 84% | | 10-179% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-7 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Method: | SW846 8082A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475268.D | 1 | 12/06/21 21:21 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 30 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 34 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 94% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 101% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 88% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-7 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 4200 | 56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Arsenic | 2.9 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Barium | < 22 | 22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.33 | 0.22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.56 | 0.56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Calcium | 632 | 560 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Chromium | 8.2 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | < 5.6 | 5.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Copper | 11.6 | 2.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 9140 | 56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 20.4 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Magnesium | 1290 | 560 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 141 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | 0.64 | 0.036 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ SW846 7471B ³ |
| Nickel | 10.2 | 4.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Silver | < 0.56 | 0.56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Vanadium | 13.9 | 5.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 27.8 | 5.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-19-7.0-9.0 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-7 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.13

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.28 | 0.28 | mg/kg | 1 | 12/09/21 01:01 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.2 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-19-7.0-9.0 | |
| Lab Sample ID: | JD35939-7A | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 89.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51031.D | 1 | 12/22/21 06:48 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.04 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-19-7.0-9.0 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-7A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 89.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.14

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 112% | | 40-140% |
| | 13C5-PFPeA | 116% | | 50-150% |
| | 13C5-PFHxA | 115% | | 50-150% |
| | 13C4-PFHpA | 117% | | 50-150% |
| | 13C8-PFOA | 117% | | 50-150% |
| | 13C9-PFNA | 118% | | 50-150% |
| | 13C6-PFDA | 123% | | 50-150% |
| | 13C7-PFUnDA | 125% | | 40-140% |
| | 13C2-PFDoDA | 115% | | 40-140% |
| | 13C2-PFTeDA | 116% | | 30-130% |
| | 13C3-PFBS | 116% | | 50-150% |
| | 13C3-PFHxS | 117% | | 50-150% |
| | 13C8-PFOS | 118% | | 50-150% |
| | 13C8-FOSA | 114% | | 30-130% |
| | d3-MeFOSAA | 92% | | 40-140% |
| | d5-EtFOSAA | 97% | | 40-140% |
| | 13C2-6:2FTS | 108% | | 50-150% |
| | 13C2-8:2FTS | 111% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-8 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240295.D | 1 | 12/02/21 15:32 | PS | 12/01/21 09:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.4 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.53 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.41 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.72 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.4 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.51 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.56 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.49 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.62 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.66 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.53 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.94 | 0.40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.94 | 0.52 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.69 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.94 | 0.47 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.94 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.94 | 0.62 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.94 | 0.79 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.94 | 0.58 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.45 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.45 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.94 | 0.43 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | |
| Lab Sample ID: | JD35939-8 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 88.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.83 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.94 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.57 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.55 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.94 | 0.50 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.46 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.94 | 0.72 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.65 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.94 | 0.85 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.94 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.94 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-8 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115510.D | 1 | 12/05/21 15:06 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 66 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 370 | 99 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.0 | ug/kg | |
| 120-12-7 | Anthracene | ND | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 54.8 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 48.9 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 60.4 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 36.5 | 37 | 19 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | 24.2 | 37 | 17 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 74 | 5.1 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.2 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 74 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-8 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 53.4 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 74 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 74 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.9 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.6 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 74 | 8.7 | ug/kg | |
| 206-44-0 | Fluoranthene | 110 | 37 | 17 | ug/kg | |
| 86-73-7 | Fluorene | ND | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.4 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 39.4 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 37 | 8.4 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.3 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 66.3 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 91.4 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 40% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-8 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.15

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 42% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 61% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 47% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 50% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 53% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 230 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 260 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 640 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 640 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | |
| Lab Sample ID: | JD35939-8 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 88.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105235.D | 1 | 12/17/21 17:00 | KLS | 12/01/21 16:25 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 58% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 56% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 63% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | |
| Lab Sample ID: | JD35939-8 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8151A SW846 3546 | Percent Solids: 88.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134424.D | 1 | 12/06/21 06:22 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.0 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.6 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.6 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 42% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 40% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | |
| Lab Sample ID: | JD35939-8 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8081B SW846 3546 | Percent Solids: 88.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171728.D | 1 | 12/04/21 02:38 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.72 | 0.59 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.72 | 0.58 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.72 | 0.65 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.72 | 0.69 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.72 | 0.53 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.72 | 0.58 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.72 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.72 | 0.49 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.72 | 0.66 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.72 | 0.63 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.72 | 0.64 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.72 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.72 | 0.56 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.72 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.72 | 0.41 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.72 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.72 | 0.62 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.72 | 0.50 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.57 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.72 | 0.52 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 109% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 112% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 98% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 109% | | 10-179% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | |
| Lab Sample ID: | JD35939-8 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 88.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475269.D | 1 | 12/06/21 21:39 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 103% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 100% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 104% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 99% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-8 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 3720 | 56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Arsenic | 5.3 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Barium | 365 | 22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.35 | 0.22 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.56 | 0.56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Calcium | 1400 | 560 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Chromium | 12.3 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | < 5.6 | 5.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Copper | 61.1 | 2.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 11100 | 56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 377 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Magnesium | 1760 | 560 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 167 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | 0.24 | 0.029 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ SW846 7471B ³ |
| Nickel | 17.9 | 4.5 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Silver | < 0.56 | 0.56 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Vanadium | 15.4 | 5.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 323 | 5.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-20-6.5-8.5 | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-8 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 88.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.15

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | 0.60 | 0.32 | mg/kg | 1 | 12/09/21 01:02 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 88.2 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-20-6.5-8.5 | |
| Lab Sample ID: JD35939-8A | Date Sampled: 11/30/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 88.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51032.D | 1 | 12/22/21 07:04 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.96 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.44 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.58 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.16

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-20-6.5-8.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-8A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 88.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.16

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 109% | | 40-140% |
| | 13C5-PFPeA | 112% | | 50-150% |
| | 13C5-PFHxA | 113% | | 50-150% |
| | 13C4-PFHpA | 114% | | 50-150% |
| | 13C8-PFOA | 113% | | 50-150% |
| | 13C9-PFNA | 113% | | 50-150% |
| | 13C6-PFDA | 118% | | 50-150% |
| | 13C7-PFUnDA | 121% | | 40-140% |
| | 13C2-PFDoDA | 111% | | 40-140% |
| | 13C2-PFTeDA | 114% | | 30-130% |
| | 13C3-PFBS | 110% | | 50-150% |
| | 13C3-PFHxS | 113% | | 50-150% |
| | 13C8-PFOS | 109% | | 50-150% |
| | 13C8-FOSA | 121% | | 30-130% |
| | d3-MeFOSAA | 132% | | 40-140% |
| | d5-EtFOSAA | 128% | | 40-140% |
| | 13C2-6:2FTS | 109% | | 50-150% |
| | 13C2-8:2FTS | 110% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-9 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #2 | I240296.D | 1 | 12/02/21 15:52 | PS | 12/01/21 09:00 | n/a | VI9769 |

| Run #1 | Initial Weight |
|--------|----------------|
| Run #2 | 6.2 g |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 9.7 | 9.4 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.53 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.72 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.4 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.56 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.49 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.62 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.53 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.94 | 0.40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.94 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.68 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.94 | 0.47 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.94 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.94 | 0.62 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.94 | 0.79 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.94 | 0.58 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.45 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.45 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.94 | 0.43 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-21-6.5-8.5 | |
| Lab Sample ID: JD35939-9 | Date Sampled: 11/30/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 85.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.82 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.94 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.55 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.94 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.46 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.94 | 0.72 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.64 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.94 | 0.84 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.94 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.94 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-9 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115511.D | 1 | 12/05/21 15:31 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 76 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 67 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 76 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 76 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 380 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 36 | ug/kg | |
| 108-95-2 | Phenol | ND | 76 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 23 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 38 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 38 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.1 | ug/kg | |
| 120-12-7 | Anthracene | ND | 38 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 76 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 26.4 | 38 | 11 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | 29.2 | 38 | 17 | ug/kg | J |
| 205-99-2 | Benzo(b)fluoranthene | 27.2 | 38 | 17 | ug/kg | J |
| 191-24-2 | Benzo(g,h,i)perylene | 20.3 | 38 | 19 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | ND | 38 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 76 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 76 | 9.2 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 76 | 5.2 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.4 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 76 | 9.0 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 14 | ug/kg | |
| 86-74-8 | Carbazole | ND | 76 | 5.5 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-9 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 76 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 26.7 | 38 | 12 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 76 | 8.1 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 76 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 76 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 76 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 38 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 38 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 76 | 32 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 38 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 38 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 76 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 76 | 6.2 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 76 | 9.4 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 76 | 8.1 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 76 | 6.7 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 76 | 8.8 | ug/kg | |
| 206-44-0 | Fluoranthene | 24.3 | 38 | 17 | ug/kg | J |
| 86-73-7 | Fluorene | ND | 38 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 76 | 9.6 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 38 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 380 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 20.6 | 38 | 18 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 76 | 8.1 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 38 | 8.5 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 8.9 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.5 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 38 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 76 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 76 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 23.1 | 38 | 13 | ug/kg | J |
| 129-00-0 | Pyrene | 25.1 | 38 | 12 | ug/kg | J |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 33% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-21-6.5-8.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-9 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 85.6 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.17

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 34% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 56% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 39% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 38% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 43% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 190 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 280 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 360 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 360 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | |
| Lab Sample ID: | JD35939-9 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 85.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105236.D | 1 | 12/17/21 17:20 | KLS | 12/03/21 12:30 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.8 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 48% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 46% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 53% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | |
| Lab Sample ID: | JD35939-9 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8151A SW846 3546 | Percent Solids: 85.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134425.D | 1 | 12/06/21 06:49 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.3 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 19 | 8.5 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.8 | 2.2 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.8 | 1.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 1189% ^a | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 31% | | 10-125% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-21-6.5-8.5 | |
| Lab Sample ID: JD35939-9 | Date Sampled: 11/30/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 85.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G171903.D | 1 | 12/09/21 04:33 | CP | 12/02/21 12:00 | OP36907 | G1G5930 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.77 | 0.63 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.77 | 0.62 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.77 | 0.69 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.77 | 0.74 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.77 | 0.57 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.77 | 0.62 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.77 | 0.35 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.77 | 0.53 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.77 | 0.71 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.77 | 0.67 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.77 | 0.68 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.77 | 0.60 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.77 | 0.60 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.77 | 0.44 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.77 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.77 | 0.48 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.77 | 0.66 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.77 | 0.54 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.61 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.77 | 0.56 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 94% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 93% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 69% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 77% | | 10-179% |

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | |
| Lab Sample ID: | JD35939-9 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 85.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475270.D | 1 | 12/06/21 21:56 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 24 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 25 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 16 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 90% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 92% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 84% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-9 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 9700 | 58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 4.4 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 35.9 | 23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.58 | 0.23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 1100 | 580 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 14.4 | 1.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 6.6 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 12.8 | 2.9 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 16100 | 58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 16.4 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 2300 | 580 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 273 | 1.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.067 | 0.029 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 13.8 | 4.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 21.2 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 35.8 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-21-6.5-8.5 | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-9 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 85.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.17

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.28 | 0.28 | mg/kg | 1 | 12/09/21 01:05 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 85.6 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-21-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-9A | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.6 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51033.D | 1 | 12/22/21 07:21 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.02 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.44 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.58 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-21-6.5-8.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-9A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 85.6 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.18

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 114% | | 40-140% |
| | 13C5-PFPeA | 117% | | 50-150% |
| | 13C5-PFHxA | 116% | | 50-150% |
| | 13C4-PFHpA | 116% | | 50-150% |
| | 13C8-PFOA | 117% | | 50-150% |
| | 13C9-PFNA | 117% | | 50-150% |
| | 13C6-PFDA | 122% | | 50-150% |
| | 13C7-PFUnDA | 126% | | 40-140% |
| | 13C2-PFDoDA | 116% | | 40-140% |
| | 13C2-PFTeDA | 115% | | 30-130% |
| | 13C3-PFBS | 117% | | 50-150% |
| | 13C3-PFHxS | 117% | | 50-150% |
| | 13C8-PFOS | 113% | | 50-150% |
| | 13C8-FOSA | 118% | | 30-130% |
| | d3-MeFOSAA | 108% | | 40-140% |
| | d5-EtFOSAA | 107% | | 40-140% |
| | 13C2-6:2FTS | 109% | | 50-150% |
| | 13C2-8:2FTS | 111% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240297.D | 1 | 12/02/21 16:12 | PS | 12/01/21 09:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.6 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 5.1 | 8.9 | 3.7 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.45 | 0.41 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.5 | 0.50 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.8 | 0.38 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.5 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.5 | 0.68 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.9 | 2.2 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.8 | 0.48 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.8 | 0.55 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.8 | 0.41 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.5 | 0.53 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.8 | 0.46 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.5 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.8 | 0.59 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.8 | 0.62 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.8 | 0.50 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.89 | 0.38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.89 | 0.49 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.89 | 0.44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.89 | 0.44 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.5 | 0.65 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.89 | 0.44 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.89 | 0.42 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.89 | 0.59 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.89 | 0.75 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.89 | 0.55 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.8 | 0.42 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.8 | 0.42 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.8 | 0.41 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.89 | 0.40 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.5 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.5 | 1.9 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | |
| Lab Sample ID: | JD35939-10 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 84.8 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.8 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.5 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.8 | 0.78 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.89 | 0.42 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.5 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.5 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.8 | 0.36 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.8 | 0.54 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.8 | 0.52 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.89 | 0.47 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.5 | 2.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.5 | 2.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.8 | 0.43 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.8 | 0.49 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.89 | 0.68 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.5 | 0.61 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.8 | 0.43 | ug/kg | |
| | m,p-Xylene | ND | 0.89 | 0.80 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.89 | 0.41 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.89 | 0.41 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115512.D | 1 | 12/05/21 15:57 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 78 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 24 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 33 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 69 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 150 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 42 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 78 | 25 | ug/kg | |
| | 3&4-Methylphenol | ND | 78 | 32 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 26 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 390 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 160 | 37 | ug/kg | |
| 108-95-2 | Phenol | ND | 78 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 26 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 29 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 23 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 39 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 39 | 20 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.4 | ug/kg | |
| 120-12-7 | Anthracene | ND | 39 | 24 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 78 | 17 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 39 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 39 | 18 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 39 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 39 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 39 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 78 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 78 | 9.5 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 78 | 5.3 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.7 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 78 | 9.3 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 14 | ug/kg | |
| 86-74-8 | Carbazole | ND | 78 | 5.6 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 78 | 15 | ug/kg | |
| 218-01-9 | Chrysene | ND | 39 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 78 | 8.3 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 78 | 17 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 78 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 78 | 13 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 39 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 39 | 20 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 78 | 32 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 39 | 26 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 39 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 78 | 16 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 78 | 6.3 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 78 | 9.7 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 78 | 8.3 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 78 | 6.9 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 78 | 9.1 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 39 | 17 | ug/kg | |
| 86-73-7 | Fluorene | ND | 39 | 18 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 78 | 9.8 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 39 | 16 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 390 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 39 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 78 | 8.3 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 39 | 8.8 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 9.2 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.7 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 10 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 39 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 78 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 78 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 39 | 13 | ug/kg | |
| 129-00-0 | Pyrene | ND | 39 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 38% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-22-6.5-8.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-10 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 84.8 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.19

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 39% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 57% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 44% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 46% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 50% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 240 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 390 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 300 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 300 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-22-6.5-8.5 | |
| Lab Sample ID: JD35939-10 | Date Sampled: 11/30/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 84.8 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105237.D | 1 | 12/17/21 17:41 | KLS | 12/03/21 12:30 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.9 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 55% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 61% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Method: | SW846 8151A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134426.D | 1 | 12/06/21 07:17 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 19 | 8.4 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.8 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.8 | 1.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 49% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 44% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171730.D | 1 | 12/04/21 03:14 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.77 | 0.63 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.77 | 0.62 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.77 | 0.69 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.77 | 0.74 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.77 | 0.56 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.77 | 0.62 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.77 | 0.35 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.77 | 0.53 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.77 | 0.70 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.77 | 0.67 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.77 | 0.68 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.77 | 0.59 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.77 | 0.60 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.77 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.77 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.77 | 0.48 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.77 | 0.66 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.77 | 0.54 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.61 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.77 | 0.55 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 101% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 100% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 89% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 94% | | 10-179% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Method: | SW846 8082A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475271.D | 1 | 12/06/21 22:14 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 24 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 16 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 101% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 98% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 103% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 94% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-10 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 84.8 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 6780 | 58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 4.6 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 32.8 | 23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.54 | 0.23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 2650 | 580 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Chromium | 12.7 | 1.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | 6.3 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 13.0 | 2.9 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 13600 | 58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 15.2 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 2930 | 580 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 258 | 1.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.071 | 0.032 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ | SW846 7471B ³ |
| Nickel | 15.0 | 4.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | 1200 | 1200 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 20.4 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 40.3 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² | SW846 3050B ⁴ |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-22-6.5-8.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-10 | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 84.8 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.19

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.24 | 0.24 | mg/kg | 1 | 12/09/21 01:06 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 84.8 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-22-6.5-8.5 | |
| Lab Sample ID: | JD35939-10A | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 84.8 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51034.D | 1 | 12/22/21 07:38 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.45 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.59 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.59 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.59 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.59 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.20

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-22-6.5-8.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-10A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 84.8 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.20

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 82% | | 40-140% |
| | 13C5-PFPeA | 85% | | 50-150% |
| | 13C5-PFHxA | 85% | | 50-150% |
| | 13C4-PFHpA | 87% | | 50-150% |
| | 13C8-PFOA | 85% | | 50-150% |
| | 13C9-PFNA | 85% | | 50-150% |
| | 13C6-PFDA | 88% | | 50-150% |
| | 13C7-PFUnDA | 91% | | 40-140% |
| | 13C2-PFDoDA | 84% | | 40-140% |
| | 13C2-PFTeDA | 86% | | 30-130% |
| | 13C3-PFBS | 83% | | 50-150% |
| | 13C3-PFHxS | 86% | | 50-150% |
| | 13C8-PFOS | 84% | | 50-150% |
| | 13C8-FOSA | 92% | | 30-130% |
| | d3-MeFOSAA | 96% | | 40-140% |
| | d5-EtFOSAA | 94% | | 40-140% |
| | 13C2-6:2FTS | 80% | | 50-150% |
| | 13C2-8:2FTS | 83% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-11 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240298.D | 1 | 12/02/21 16:33 | PS | 12/01/21 09:00 | n/a | VI9769 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 7.0 | 9.5 | 3.9 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.53 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.41 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.73 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.5 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.51 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.59 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.44 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.56 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.49 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.62 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.66 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.53 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.95 | 0.40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.95 | 0.52 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.95 | 0.47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.95 | 0.47 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.69 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.95 | 0.47 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.95 | 0.45 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.95 | 0.62 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.95 | 0.80 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.95 | 0.58 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.45 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.45 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.95 | 0.43 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | |
| Lab Sample ID: | JD35939-11 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 86.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.83 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.95 | 0.45 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.57 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.55 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.95 | 0.50 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.46 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.53 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.95 | 0.72 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.65 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.46 | ug/kg | |
| | m,p-Xylene | ND | 0.95 | 0.85 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.95 | 0.44 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.95 | 0.44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-11 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 3E115513.D | 1 | 12/05/21 16:23 | KLS | 12/03/21 12:30 | OP36903 | E3E5278 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 76 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 67 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 41 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 76 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 76 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol ^a | ND | 380 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 36 | ug/kg | |
| 108-95-2 | Phenol | ND | 76 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 23 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 38 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 38 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.1 | ug/kg | |
| 120-12-7 | Anthracene | ND | 38 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 76 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 38 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 38 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 38 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 38 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 38 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 76 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 76 | 9.2 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 76 | 5.2 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.4 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 76 | 9.0 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 14 | ug/kg | |
| 86-74-8 | Carbazole | ND | 76 | 5.5 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-11 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam ^a | ND | 76 | 15 | ug/kg | |
| 218-01-9 | Chrysene | ND | 38 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 76 | 8.1 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 76 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 76 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 76 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 38 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 38 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 76 | 32 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 38 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 38 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 76 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 76 | 6.2 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 76 | 9.4 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 76 | 8.1 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 76 | 6.7 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 76 | 8.9 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 38 | 17 | ug/kg | |
| 86-73-7 | Fluorene | ND | 38 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 76 | 9.6 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 38 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 380 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 38 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 76 | 8.1 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 38 | 8.6 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 8.9 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.5 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 38 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 76 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 76 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 38 | 13 | ug/kg | |
| 129-00-0 | Pyrene | ND | 38 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 39% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-23-7.5-9.5 Lab Sample ID: JD35939-11 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/30/21 Date Received: 11/30/21 Percent Solids: 86.3 |
|---|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 41% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 60% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 47% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 49% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 53% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.74 | 230 | ug/kg | J |
| | System artifact/aldol-condensation | 2.81 | 750 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 12.59 | 420 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 420 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-11 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.3 |
| Method: | SW846 8270E BY SIM SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105238.D | 1 | 12/17/21 18:02 | KLS | 12/03/21 12:30 | OP36903A | E4M4890 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.8 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 58% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 56% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 65% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-23-7.5-9.5 Lab Sample ID: JD35939-11 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 11/30/21 Date Received: 11/30/21 Percent Solids: 86.3 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134427.D | 1 | 12/06/21 07:44 | CP | 12/02/21 10:10 | OP36906 | G3G4903 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 19 | 8.5 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.8 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.8 | 1.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 78% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 70% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-23-7.5-9.5 | |
| Lab Sample ID: JD35939-11 | Date Sampled: 11/30/21 |
| Matrix: SO - Soil | Date Received: 11/30/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 86.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171731.D | 1 | 12/04/21 03:33 | RK | 12/02/21 12:00 | OP36907 | G1G5924 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.75 | 0.62 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.75 | 0.61 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.75 | 0.68 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.75 | 0.72 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.75 | 0.55 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.75 | 0.61 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.75 | 0.34 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.75 | 0.52 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.75 | 0.69 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.75 | 0.66 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.75 | 0.67 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.75 | 0.58 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.75 | 0.59 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.75 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.75 | 0.43 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.75 | 0.47 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.75 | 0.65 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.75 | 0.53 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.60 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.75 | 0.54 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 100% | | 27-138% |
| 877-09-8 | Tetrachloro-m-xylene | 102% | | 27-138% |
| 2051-24-3 | Decachlorobiphenyl | 93% | | 10-179% |
| 2051-24-3 | Decachlorobiphenyl | 94% | | 10-179% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | |
| Lab Sample ID: | JD35939-11 | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 86.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475272.D | 1 | 12/06/21 22:31 | TL | 12/02/21 12:00 | OP36908 | GXX7676 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 102% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 100% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 106% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 92% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | Date Sampled: | 11/30/21 |
| Lab Sample ID: | JD35939-11 | Date Received: | 11/30/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|---------|-------|-------|----|----------|-------------|--------|--------------------------|
| Aluminum | 6910 | 58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Arsenic | 3.4 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Barium | 42.4 | 23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Beryllium | 0.52 | 0.23 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Calcium | 2540 | 580 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Chromium | 13.3 | 1.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Cobalt | 6.0 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Copper | 10.4 | 2.9 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Iron | 13300 | 58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Lead | 11.7 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Magnesium | 2490 | 580 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Manganese | 257 | 1.7 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Mercury | < 0.037 | 0.037 | mg/kg | 1 | 12/02/21 | 12/02/21 | SB | SW846 7471B ¹ |
| Nickel | 14.2 | 4.6 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Vanadium | 19.2 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |
| Zinc | 29.5 | 5.8 | mg/kg | 1 | 12/04/21 | 12/05/21 | ND | SW846 6010D ² |

(1) Instrument QC Batch: MA51520

(2) Instrument QC Batch: MA51546

(3) Prep QC Batch: MP30120

(4) Prep QC Batch: MP30147

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-23-7.5-9.5 | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-11 | Date Received: 11/30/21 |
| Matrix: SO - Soil | Percent Solids: 86.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.21

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.32 | 0.32 | mg/kg | 1 | 12/09/21 01:08 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 86.3 | | % | 1 | 12/01/21 15:55 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23-7.5-9.5 | |
| Lab Sample ID: | JD35939-11A | Date Sampled: 11/30/21 |
| Matrix: | SO - Soil | Date Received: 11/30/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 86.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51035.D | 1 | 12/22/21 07:54 | AFL | 12/15/21 08:30 | F:OP88850 | F:S3Q713 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.44 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.58 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.22

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-23-7.5-9.5 | | Date Sampled: 11/30/21 |
| Lab Sample ID: JD35939-11A | | Date Received: 11/30/21 |
| Matrix: SO - Soil | | Percent Solids: 86.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.22

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 81% | | 40-140% |
| | 13C5-PFPeA | 84% | | 50-150% |
| | 13C5-PFHxA | 84% | | 50-150% |
| | 13C4-PFHpA | 85% | | 50-150% |
| | 13C8-PFOA | 84% | | 50-150% |
| | 13C9-PFNA | 85% | | 50-150% |
| | 13C6-PFDA | 88% | | 50-150% |
| | 13C7-PFUnDA | 90% | | 40-140% |
| | 13C2-PFDoDA | 82% | | 40-140% |
| | 13C2-PFTeDA | 84% | | 30-130% |
| | 13C3-PFBS | 82% | | 50-150% |
| | 13C3-PFHxS | 84% | | 50-150% |
| | 13C8-PFOS | 81% | | 50-150% |
| | 13C8-FOSA | 93% | | 30-130% |
| | d3-MeFOSAA | 97% | | 40-140% |
| | d5-EtFOSAA | 94% | | 40-140% |
| | 13C2-6:2FTS | 81% | | 50-150% |
| | 13C2-8:2FTS | 81% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



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Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD35939

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 11/30/2021 5:00:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (-0.1);

| <u>Cooler Security</u> | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) _____ |
|--------------------|-----------------|-----------------|------------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD35939: Chain of Custody

Page 2 of 3



5.1

Job Change Order: JD35939

Requested Date: 12/13/2021 **Received Date:** 11/30/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD35939-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD35939: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.



SGS Sample Receipt Summary

Job Number: JD35939

Client: SGS NJ

Project: 2ND AVENUE33-39TH STREET,BROOKLYN,NY

Date / Time Received: 12/2/2021 3:30:00 PM

Delivery Method: FX

Airbill #s: _____

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | |
| 5. Cooler media | <u>Ice (Bag)</u> | |

Trip Blank Information

Y or N

N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W or S</u> | | <u>N/A</u> |
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____

Number of 5035 Field Kits: _____

Number of Lab Filtered Metals: _____

Test Strip Lot #: pH 0-3 _____ 230315 _____

pH 10-12 _____ 219813A _____

Other: (Specify) _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: STEPHENP

Date: 12/2/2021 3:30:00 PM

Reviewer: _____

Date: _____

JD35939: Chain of Custody

Page 2 of 2

5.2



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Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD36084

Sampling Dates: 12/01/21 - 12/02/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 177



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Sample Summary

Tetra Tech

Job No: JD36084

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | |
|------------|----------|----------|----------|----|------|------------------|
| JD36084-1 | 12/01/21 | 08:51 AV | 12/02/21 | SO | Soil | TT-SB-24-6.5-8.5 |
| JD36084-1A | 12/01/21 | 08:51 AV | 12/02/21 | SO | Soil | TT-SB-24-6.5-8.5 |
| JD36084-2 | 12/01/21 | 09:52 AV | 12/02/21 | SO | Soil | TT-SB-25-7.0-9.0 |
| JD36084-2A | 12/01/21 | 09:52 AV | 12/02/21 | SO | Soil | TT-SB-25-7.0-9.0 |
| JD36084-3 | 12/01/21 | 10:38 AV | 12/02/21 | SO | Soil | TT-SB-26-6.0-8.0 |
| JD36084-3A | 12/01/21 | 10:38 AV | 12/02/21 | SO | Soil | TT-SB-26-6.0-8.0 |
| JD36084-4 | 12/01/21 | 11:47 AV | 12/02/21 | SO | Soil | TT-SB-27-5.0-7.0 |
| JD36084-4A | 12/01/21 | 11:47 AV | 12/02/21 | SO | Soil | TT-SB-27-5.0-7.0 |
| JD36084-5 | 12/01/21 | 12:00 AV | 12/02/21 | SO | Soil | SDUP-02 |
| JD36084-5A | 12/01/21 | 12:00 AV | 12/02/21 | SO | Soil | SDUP-02 |
| JD36084-6 | 12/01/21 | 13:47 AV | 12/02/21 | SO | Soil | TT-SB-28-7.0-9.0 |
| JD36084-6A | 12/01/21 | 13:47 AV | 12/02/21 | SO | Soil | TT-SB-28-7.0-9.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

Tetra Tech

Job No: JD36084

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------|------------------|
| | Date | Time By | | Code | Type | |
| JD36084-7 | 12/01/21 | 14:56 AV | 12/02/21 | SO | Soil | TT-SB-29-4.0-6.0 |
| JD36084-7A | 12/01/21 | 14:56 AV | 12/02/21 | SO | Soil | TT-SB-29-4.0-6.0 |
| JD36084-8 | 12/02/21 | 08:53 AV | 12/02/21 | SO | Soil | TT-SB-30-7.0-9.0 |
| JD36084-8A | 12/02/21 | 08:53 AV | 12/02/21 | SO | Soil | TT-SB-30-7.0-9.0 |
| JD36084-9 | 12/02/21 | 10:50 AV | 12/02/21 | SO | Soil | TT-SB-31-6.0-8.0 |
| JD36084-9A | 12/02/21 | 10:50 AV | 12/02/21 | SO | Soil | TT-SB-31-6.0-8.0 |
| JD36084-10 | 12/02/21 | 11:47 AV | 12/02/21 | SO | Soil | TT-SB-32-7.0-9.0 |
| JD36084-10A | 12/02/21 | 11:47 AV | 12/02/21 | SO | Soil | TT-SB-32-7.0-9.0 |
| JD36084-11 | 12/02/21 | 13:38 AV | 12/02/21 | SO | Soil | TT-SB-33-4.5-6.5 |
| JD36084-11A | 12/02/21 | 13:38 AV | 12/02/21 | SO | Soil | TT-SB-33-4.5-6.5 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No: JD36084

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/31/2021 12:35:54 P

On 12/02/2021, 11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36084 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: VI9771

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36084-1MS, JD36084-2DUP were used as the QC samples indicated.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88800

- The data for EPA 537M BY ID meets quality control requirements.
- JD36084-9A: Analysis performed at SGS Orlando, FL.
- JD36084-1A: Analysis performed at SGS Orlando, FL.
- JD36084-11A: Analysis performed at SGS Orlando, FL.
- JD36084-8A: Analysis performed at SGS Orlando, FL.
- JD36084-2A: Analysis performed at SGS Orlando, FL.
- JD36084-3A: Analysis performed at SGS Orlando, FL.
- JD36084-5A: Analysis performed at SGS Orlando, FL.
- JD36084-6A: Analysis performed at SGS Orlando, FL.
- JD36084-4A: Analysis performed at SGS Orlando, FL.
- JD36084-10A: Analysis performed at SGS Orlando, FL.
- JD36084-7A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36957

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36084-1MS, JD36084-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36957A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36084-2MS, JD36084-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

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GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36961

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36084-4MS, JD36084-4MSD were used as the QC samples indicated.
- JD36084-3: Had TBA cleanup. Confirmation run.
- JD36084-7: Confirmation run.
- JD36084-1: Had TBA cleanup. Confirmation run.
- OP36961-MB1: Had TBA cleanup.
- JD36084-5: Had TBA cleanup. Confirmation run.
- OP36961-BS1: Had TBA cleanup.
- JD36084-9: Confirmation run.
- OP36961-BS1 for 4,4'-DDD: Outside of in house control limits.
- JD36084-9, JD36084-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP36961-BS1 for Heptachlor epoxide: Outside of in house control limits. Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP36961-BS1 for alpha-BHC: Outside of in house control limits.
- OP36961-BS1 for Aldrin: Outside of in house control limits.
- OP36961-BS1 for 4,4'-DDT: Outside of in house control limits.
- OP36961-BS1 for 4,4'-DDE: Outside of in house control limits.
- OP36961-BS1 for 4,4'-DDD: Outside of in house control limits.
- JD36084-2 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Aldrin: This compound outside control limits biased high in the associated BS.
- JD36084-2 for alpha-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-2 for alpha-Chlordane: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for beta-BHC: Outside of in house control limits.
- JD36084-2 for Endrin aldehyde: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Endosulfan-II: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Heptachlor: Outside of in house control limits.
- JD36084-10 for Endosulfan sulfate: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Heptachlor epoxide: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Endrin: This compound outside control limits biased high in the associated BS.
- JD36084-2 for 4,4'-DDE: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Endrin aldehyde: This compound outside control limits biased high in the associated BS.
- JD36084-10 for gamma-BHC (Lindane): This compound outside control limits biased high in the associated BS.
- JD36084-4 for Endosulfan-II: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Heptachlor: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Methoxychlor: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Aldrin: This compound outside control limits biased high in the associated BS.
- JD36084-2 for gamma-BHC (Lindane): This compound outside control limits biased high in the associated BS.
- JD36084-2 for gamma-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Heptachlor: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Heptachlor epoxide: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for alpha-Chlordane: Outside of in house control limits.

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GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36961

- JD36084-4 for 4,4'-DDD: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Endrin: Outside of in house control limits.
- JD36084-4 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Endosulfan-I: This compound outside control limits biased high in the associated BS.
- JD36084-4 for alpha-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-4 for alpha-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-4 for beta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-4 for delta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Dieldrin: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Endosulfan sulfate: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Methoxychlor: This compound outside control limits biased high in the associated BS.
- JD36084-2 for beta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-10 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Tetrachloro-m-xylene: Outside of in house control limits.
- JD36084-2 for delta-BHC: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Heptachlor epoxide: Outside of in house control limits.
- JD36084-2 for Dieldrin: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for gamma-Chlordane: Outside of in house control limits.
- OP36961-BS1 for gamma-BHC (Lindane): Outside of in house control limits.
- OP36961-BS1 for Endrin aldehyde: Outside of in house control limits.
- JD36084-4 for Endosulfan-I: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Endosulfan-II: Outside of in house control limits.
- JD36084-2 for Endrin: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Endosulfan-I: Outside of in house control limits.
- OP36961-BS1 for Endosulfan sulfate: Outside of in house control limits.
- OP36961-BS1 for Dieldrin: Outside of in house control limits.
- OP36961-BS1 for delta-BHC: Outside of in house control limits.
- JD36084-4 for 4,4'-DDE: This compound outside control limits biased high in the associated BS.
- JD36084-2 for Endosulfan sulfate: This compound outside control limits biased high in the associated BS.
- JD36084-2 for 4,4'-DDD: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Methoxychlor: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Heptachlor epoxide: This compound outside control limits biased high in the associated BS.
- JD36084-6 for delta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Endosulfan-II: This compound outside control limits biased high in the associated BS.
- JD36084-8 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.
- JD36084-6 for alpha-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Endrin: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Endrin aldehyde: This compound outside control limits biased high in the associated BS.
- JD36084-4 for gamma-BHC (Lindane): This compound outside control limits biased high in the associated BS.
- JD36084-8 for Dieldrin: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Heptachlor: This compound outside control limits biased high in the associated BS.

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GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36961

- JD36084-8 for delta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-4 for Methoxychlor: This compound outside control limits biased high in the associated BS.
- JD36084-6 for 4,4'-DDD: This compound outside control limits biased high in the associated BS.
- JD36084-6 for 4,4'-DDE: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Dieldrin: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Aldrin: This compound outside control limits biased high in the associated BS.
- JD36084-6 for gamma-BHC (Lindane): This compound outside control limits biased high in the associated BS.
- JD36084-10 for alpha-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-4 for gamma-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Heptachlor: This compound outside control limits biased high in the associated BS.
- JD36084-8 for 4,4'-DDD: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Endrin: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Endrin aldehyde: This compound outside control limits biased high in the associated BS.
- JD36084-8 for 4,4'-DDE: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Heptachlor epoxide: This compound outside control limits biased high in the associated BS.
- JD36084-8 for gamma-BHC (Lindane): This compound outside control limits biased high in the associated BS.
- JD36084-8 for gamma-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-6 for beta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-6 for gamma-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Heptachlor epoxide: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Methoxychlor: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Aldrin: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Endosulfan-I: This compound outside control limits biased high in the associated BS.
- JD36084-8 for Endosulfan sulfate: This compound outside control limits biased high in the associated BS.
- JD36084-8 for alpha-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-8 for alpha-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-8 for beta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Heptachlor: This compound outside control limits biased high in the associated BS.
- JD36084-10 for 4,4'-DDE: This compound outside control limits biased high in the associated BS.
- JD36084-11 for 4,4'-DDD: This compound outside control limits biased high in the associated BS.
- JD36084-11 for gamma-BHC (Lindane): This compound outside control limits biased high in the associated BS.
- JD36084-11 for gamma-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Heptachlor: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Heptachlor epoxide: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Methoxychlor: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Endosulfan-II: This compound outside control limits biased high in the associated BS.
- JD36084-6 for alpha-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-10 for 4,4'-DDD: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Endosulfan-I: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Aldrin: This compound outside control limits biased high in the associated BS.
- OP36961-BS1 for Methoxychlor: Outside of in house control limits.

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GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36961

- JD36084-10 for alpha-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-10 for beta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-10 for delta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Dieldrin: This compound outside control limits biased high in the associated BS.
- JD36084-11 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Endosulfan-II: This compound outside control limits biased high in the associated BS.
- JD36084-10 for gamma-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Endosulfan sulfate: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Endosulfan-I: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Endosulfan-II: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Endrin: This compound outside control limits biased high in the associated BS.
- JD36084-6 for Endrin aldehyde: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Endrin: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Endrin aldehyde: This compound outside control limits biased high in the associated BS.
- JD36084-11 for 4,4'-DDE: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Aldrin: This compound outside control limits biased high in the associated BS.
- JD36084-11 for alpha-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-11 for alpha-Chlordane: This compound outside control limits biased high in the associated BS.
- JD36084-11 for beta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-11 for delta-BHC: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Dieldrin: This compound outside control limits biased high in the associated BS.
- JD36084-11 for Endosulfan sulfate: This compound outside control limits biased high in the associated BS.
- JD36084-10 for Endosulfan-I: This compound outside control limits biased high in the associated BS.
- JD36084-6 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.

Matrix: SO

Batch ID: OP37171

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36682-7MS, JD36682-7MSD were used as the QC samples indicated.
- JD36084-9: Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- JD36084-3: Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- JD36084-1: Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- JD36084-7: Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- JD36084-5: Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- JD36084-9 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36084-9 for 4,4'-DDT: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD36084-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.

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GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36962

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36084-5MS, JD36084-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD36084-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP36962-MB1 for Decachlorobiphenyl: Outside of in house control limits.
- OP36962-MB1 for Tetrachloro-m-xylene: Outside of in house control limits.
- OP36962-BS1 for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD36084-9 for Decachlorobiphenyl: Outside control limits due to matrix interference.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36933

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36022-1MS, JD36022-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4,5-T, 2,4,5-TP (Silvex) are outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-TP (Silvex) are outside of in house control limits.
- OP36933-BSD for 2,4,5-TP (Silvex): Analytical precision exceeds in-house control limits.
- OP36933-BS1 for 2,4,5-TP (Silvex): Outside of in house control limits.
- OP36933-BSD for 2,4-DCAA: Outside of in house control limits.
- OP36933-BS1 for 2,4,5-T: Outside of in house control limits.
- OP36933-BS1 for 2,4-DCAA: Outside of in house control limits.
- OP36933-BSD for 2,4-D: Analytical precision exceeds in-house control limits.
- OP36933-MS/MSD for 2,4-DCAA: Outside of in house control limits.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30189

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36039-1MS, JD36039-1MSD, JD36039-1PS, JD36039-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for Serial Dilution for Cadmium, Cobalt, Lead, Potassium, Selenium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30190

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36076-1MS, JD36076-1MSD were used as the QC samples for metals.

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General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24481

- Sample(s) JD36081-39DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37404

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36084-1DUP, JD36084-1MS, JD36084-2MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD36084

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/23/2021 9:58:16

On 12/02/2021, 11 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36084 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88800

Sample(s) FA90827-71MS, FA90827-71MSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD36084-1 | TT-SB-24-6.5-8.5 | | | | | |
| Acetone | | 19.1 | 10 | 4.2 | ug/kg | SW846 8260D |
| o-Xylene | | 0.74 J | 1.0 | 0.46 | ug/kg | SW846 8260D |
| Xylene (total) | | 0.74 J | 1.0 | 0.46 | ug/kg | SW846 8260D |
| Acenaphthene | | 32.0 J | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 23.4 J | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 91.4 | 37 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 381 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 364 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 454 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 258 | 37 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 160 | 37 | 17 | ug/kg | SW846 8270E |
| Carbazole | | 28.4 J | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | | 381 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 86.3 | 37 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | | 16.7 J | 73 | 15 | ug/kg | SW846 8270E |
| Fluoranthene | | 752 | 37 | 16 | ug/kg | SW846 8270E |
| Fluorene | | 26.9 J | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 311 | 37 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | | 362 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 801 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 5400 J | | | ug/kg | |
| Aldrin ^a | | 1.9 | 0.65 | 0.54 | ug/kg | SW846 8081B |
| gamma-BHC (Lindane) ^a | | 2.3 | 0.65 | 0.48 | ug/kg | SW846 8081B |
| alpha-Chlordane ^b | | 2.8 | 0.65 | 0.53 | ug/kg | SW846 8081B |
| gamma-Chlordane ^a | | 2.4 | 0.65 | 0.30 | ug/kg | SW846 8081B |
| Dieldrin ^a | | 1.1 | 0.65 | 0.45 | ug/kg | SW846 8081B |
| 4,4'-DDD ^b | | 5.8 | 0.65 | 0.60 | ug/kg | SW846 8081B |
| 4,4'-DDE ^b | | 5.7 | 0.65 | 0.57 | ug/kg | SW846 8081B |
| 4,4'-DDT ^c | | 3.5 | 0.65 | 0.58 | ug/kg | SW846 8081B |
| Endosulfan-II ^b | | 2.7 | 0.65 | 0.41 | ug/kg | SW846 8081B |
| Heptachlor epoxide ^a | | 0.84 | 0.65 | 0.46 | ug/kg | SW846 8081B |
| Aluminum | | 4260 | 56 | | mg/kg | SW846 6010D |
| Arsenic | | 2.8 | 2.3 | | mg/kg | SW846 6010D |
| Barium | | 49.9 | 23 | | mg/kg | SW846 6010D |
| Beryllium | | 0.24 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | | 35300 | 1100 | | mg/kg | SW846 6010D |
| Chromium | | 10.3 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 12.6 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 9130 | 56 | | mg/kg | SW846 6010D |
| Lead | | 87.1 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | | 7890 | 560 | | mg/kg | SW846 6010D |
| Manganese | | 193 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.24 | 0.029 | | mg/kg | SW846 7471B |

Summary of Hits

Job Number: JD36084
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-----|-----|-------|-------------|
| Nickel | | 17.2 | 4.5 | | mg/kg | SW846 6010D |
| Vanadium | | 15.1 | 5.6 | | mg/kg | SW846 6010D |
| Zinc | | 48.5 | 5.6 | | mg/kg | SW846 6010D |

JD36084-1A TT-SB-24-6.5-8.5

No hits reported in this sample.

JD36084-2 TT-SB-25-7.0-9.0

| | | | | | |
|--------------------------|--------|-------|-----|-------|--------------------|
| Acenaphthene | 21.8 J | 36 | 12 | ug/kg | SW846 8270E |
| Anthracene | 48.0 | 36 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 97.6 | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 80.3 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 99.6 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 48.4 | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 39.9 | 36 | 17 | ug/kg | SW846 8270E |
| Carbazole | 18.7 J | 72 | 5.2 | ug/kg | SW846 8270E |
| Chrysene | 91.2 | 36 | 11 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 29.0 J | 36 | 16 | ug/kg | SW846 8270E |
| Fluoranthene | 221 | 36 | 16 | ug/kg | SW846 8270E |
| Fluorene | 20.6 J | 36 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 76.4 | 36 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | 208 | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | 187 | 36 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 680 J | | | ug/kg | |
| Aluminum | 6110 | 58 | | mg/kg | SW846 6010D |
| Arsenic | 5.2 | 2.3 | | mg/kg | SW846 6010D |
| Barium | 37.0 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.38 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | 1080 | 580 | | mg/kg | SW846 6010D |
| Chromium | 11.7 | 1.2 | | mg/kg | SW846 6010D |
| Copper | 37.5 | 2.9 | | mg/kg | SW846 6010D |
| Iron | 11200 | 58 | | mg/kg | SW846 6010D |
| Lead | 55.2 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | 2180 | 580 | | mg/kg | SW846 6010D |
| Manganese | 239 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | 0.079 | 0.034 | | mg/kg | SW846 7471B |
| Nickel | 14.5 | 4.6 | | mg/kg | SW846 6010D |
| Vanadium | 17.4 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | 50.9 | 5.8 | | mg/kg | SW846 6010D |
| Cyanide | 1.9 | 0.22 | | mg/kg | SW846 9012B/LACHAT |

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36084-2A TT-SB-25-7.0-9.0

No hits reported in this sample.

JD36084-3 TT-SB-26-6.0-8.0

| | | | | | |
|------------------------------|---------|------|------|-------|-------------|
| Acetone | 23.6 | 9.4 | 3.9 | ug/kg | SW846 8260D |
| 2-Butanone (MEK) | 4.5 J | 9.4 | 2.3 | ug/kg | SW846 8260D |
| Carbon disulfide | 0.81 J | 1.9 | 0.50 | ug/kg | SW846 8260D |
| Ethylbenzene | 0.90 J | 0.94 | 0.43 | ug/kg | SW846 8260D |
| Isopropylbenzene | 8.0 | 1.9 | 1.3 | ug/kg | SW846 8260D |
| m,p-Xylene | 1.3 | 0.94 | 0.85 | ug/kg | SW846 8260D |
| o-Xylene | 0.95 | 0.94 | 0.43 | ug/kg | SW846 8260D |
| Xylene (total) | 2.3 | 0.94 | 0.43 | ug/kg | SW846 8260D |
| Total TIC, Volatile | 2026 J | | | ug/kg | |
| Acenaphthene | 3590 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | 25.6 J | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | 153 | 37 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 96.4 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 74.5 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 99.2 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 55.6 | 37 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 30.5 J | 37 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | 26.3 J | 73 | 5.0 | ug/kg | SW846 8270E |
| Carbazole | 96.6 | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | 98.9 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 32.6 J | 37 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | 1570 | 73 | 15 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 68.6 J | 73 | 8.5 | ug/kg | SW846 8270E |
| Fluoranthene | 415 | 37 | 16 | ug/kg | SW846 8270E |
| Fluorene | 1350 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 76.1 | 37 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | 446 | 37 | 8.3 | ug/kg | SW846 8270E |
| Naphthalene | 372 | 37 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | 1810 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | 328 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 10580 J | | | ug/kg | |
| alpha-BHC ^a | 1.9 | 0.72 | 0.59 | ug/kg | SW846 8081B |
| gamma-Chlordane ^a | 2.0 | 0.72 | 0.33 | ug/kg | SW846 8081B |
| 4,4'-DDD ^b | 17.9 | 0.72 | 0.66 | ug/kg | SW846 8081B |
| 4,4'-DDE ^b | 5.4 | 0.72 | 0.63 | ug/kg | SW846 8081B |
| Aluminum | 4270 | 58 | | mg/kg | SW846 6010D |
| Arsenic | 3.9 | 2.3 | | mg/kg | SW846 6010D |
| Barium | 81.7 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.28 | 0.23 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-------|-----|-------|-------------|
| | | 29800 | 1200 | | mg/kg | SW846 6010D |
| Calcium | | 9.2 | 1.2 | | mg/kg | SW846 6010D |
| Chromium | | 10.7 | 2.9 | | mg/kg | SW846 6010D |
| Copper | | 9130 | 58 | | mg/kg | SW846 6010D |
| Iron | | 53.6 | 2.3 | | mg/kg | SW846 6010D |
| Lead | | 8370 | 580 | | mg/kg | SW846 6010D |
| Magnesium | | 582 | 1.7 | | mg/kg | SW846 6010D |
| Manganese | | 0.060 | 0.031 | | mg/kg | SW846 7471B |
| Mercury | | 12.6 | 4.6 | | mg/kg | SW846 6010D |
| Nickel | | 21.4 | 5.8 | | mg/kg | SW846 6010D |
| Vanadium | | 77.0 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | | | | | | |

JD36084-3A TT-SB-26-6.0-8.0

No hits reported in this sample.

JD36084-4 TT-SB-27-5.0-7.0

| | | | | | | |
|--------------------------|-------|------|--|--|-------|-------------|
| Total TIC, Semi-Volatile | 370 J | | | | ug/kg | |
| Aluminum | 7040 | 59 | | | mg/kg | SW846 6010D |
| Arsenic | 3.2 | 2.3 | | | mg/kg | SW846 6010D |
| Barium | 35.1 | 23 | | | mg/kg | SW846 6010D |
| Beryllium | 0.52 | 0.23 | | | mg/kg | SW846 6010D |
| Calcium | 1120 | 590 | | | mg/kg | SW846 6010D |
| Chromium | 12.7 | 1.2 | | | mg/kg | SW846 6010D |
| Copper | 11.3 | 2.9 | | | mg/kg | SW846 6010D |
| Iron | 11900 | 59 | | | mg/kg | SW846 6010D |
| Lead | 25.0 | 2.3 | | | mg/kg | SW846 6010D |
| Magnesium | 2080 | 590 | | | mg/kg | SW846 6010D |
| Manganese | 232 | 1.8 | | | mg/kg | SW846 6010D |
| Nickel | 13.4 | 4.7 | | | mg/kg | SW846 6010D |
| Vanadium | 21.1 | 5.9 | | | mg/kg | SW846 6010D |
| Zinc | 35.8 | 5.9 | | | mg/kg | SW846 6010D |

JD36084-4A TT-SB-27-5.0-7.0

Perfluorooctanesulfonic acid ^d 0.35 J 0.55 0.28 ug/kg EPA 537M BY ID

JD36084-5 SDUP-02

| | | | | | | |
|--------------------|------|-----|-----|--|-------|-------------|
| Acetone | 14.9 | 9.1 | 3.8 | | ug/kg | SW846 8260D |
| Acenaphthene | 53.5 | 36 | 12 | | ug/kg | SW846 8270E |
| Acenaphthylene | 91.0 | 36 | 18 | | ug/kg | SW846 8270E |
| Anthracene | 303 | 36 | 22 | | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 1780 | 36 | 10 | | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-------|------|-------|-------------|
| | | 1560 | 36 | 16 | ug/kg | SW846 8270E |
| | | 1940 | 36 | 16 | ug/kg | SW846 8270E |
| | | 892 | 36 | 18 | ug/kg | SW846 8270E |
| | | 690 | 36 | 17 | ug/kg | SW846 8270E |
| | | 45.3 J | 72 | 5.2 | ug/kg | SW846 8270E |
| | | 1700 | 36 | 11 | ug/kg | SW846 8270E |
| | | 281 | 36 | 16 | ug/kg | SW846 8270E |
| | | 24.5 J | 72 | 15 | ug/kg | SW846 8270E |
| | | 3090 | 36 | 16 | ug/kg | SW846 8270E |
| | | 45.7 | 36 | 17 | ug/kg | SW846 8270E |
| | | 1110 | 36 | 17 | ug/kg | SW846 8270E |
| | | 10.1 J | 36 | 10 | ug/kg | SW846 8270E |
| | | 1050 | 36 | 12 | ug/kg | SW846 8270E |
| | | 3030 | 36 | 12 | ug/kg | SW846 8270E |
| | | 9060 J | | | ug/kg | |
| | | 2.1 | 0.68 | 0.50 | ug/kg | SW846 8081B |
| | | 3.2 | 0.68 | 0.63 | ug/kg | SW846 8081B |
| | | 3.1 | 0.68 | 0.60 | ug/kg | SW846 8081B |
| | | 4840 | 58 | | mg/kg | SW846 6010D |
| | | 3.5 | 2.3 | | mg/kg | SW846 6010D |
| | | 71.5 | 23 | | mg/kg | SW846 6010D |
| | | 0.29 | 0.23 | | mg/kg | SW846 6010D |
| | | 25100 | 1200 | | mg/kg | SW846 6010D |
| | | 12.8 | 1.2 | | mg/kg | SW846 6010D |
| | | 15.4 | 2.9 | | mg/kg | SW846 6010D |
| | | 9810 | 58 | | mg/kg | SW846 6010D |
| | | 115 | 2.3 | | mg/kg | SW846 6010D |
| | | 6320 | 580 | | mg/kg | SW846 6010D |
| | | 195 | 1.7 | | mg/kg | SW846 6010D |
| | | 0.13 | 0.029 | | mg/kg | SW846 7471B |
| | | 16.7 | 4.6 | | mg/kg | SW846 6010D |
| | | 15.1 | 5.8 | | mg/kg | SW846 6010D |
| | | 69.4 | 5.8 | | mg/kg | SW846 6010D |

JD36084-5A SDUP-02

No hits reported in this sample.

JD36084-6 TT-SB-28-7.0-9.0

| | | | | | | |
|--|--|-------|-----|-----|-------|-------------|
| | | 9.7 | 9.3 | 3.9 | ug/kg | SW846 8260D |
| | | 200 J | | | ug/kg | |
| | | 5460 | 57 | | mg/kg | SW846 6010D |
| | | 2.8 | 2.3 | | mg/kg | SW846 6010D |
| | | 29.5 | 23 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|------|-----|-------|-------------|
| | | 0.46 | 0.23 | | mg/kg | SW846 6010D |
| Beryllium | | 1780 | 570 | | mg/kg | SW846 6010D |
| Calcium | | 12.7 | 1.1 | | mg/kg | SW846 6010D |
| Chromium | | 9.3 | 2.9 | | mg/kg | SW846 6010D |
| Copper | | 11700 | 57 | | mg/kg | SW846 6010D |
| Iron | | 16.1 | 2.3 | | mg/kg | SW846 6010D |
| Lead | | 3260 | 570 | | mg/kg | SW846 6010D |
| Magnesium | | 301 | 1.7 | | mg/kg | SW846 6010D |
| Manganese | | 19.8 | 4.6 | | mg/kg | SW846 6010D |
| Nickel | | 1100 | 1100 | | mg/kg | SW846 6010D |
| Potassium | | 18.6 | 5.7 | | mg/kg | SW846 6010D |
| Vanadium | | 34.2 | 5.7 | | mg/kg | SW846 6010D |
| Zinc | | | | | | |

JD36084-6A TT-SB-28-7.0-9.0

No hits reported in this sample.

JD36084-7 TT-SB-29-4.0-6.0

| | | | | | |
|--------------------------|--------|-------|-----|-------|-------------|
| Acetone | 4.7 J | 10 | 4.2 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | 43.9 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 33.8 J | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 50.4 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 18.2 J | 37 | 18 | ug/kg | SW846 8270E |
| Chrysene | 44.0 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 21.4 J | 37 | 16 | ug/kg | SW846 8270E |
| Fluoranthene | 80.3 | 37 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 40.9 | 37 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | 36.8 J | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | 81.4 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 320 J | | | ug/kg | |
| Aluminum | 5590 | 55 | | mg/kg | SW846 6010D |
| Arsenic | 3.1 | 2.2 | | mg/kg | SW846 6010D |
| Barium | 31.1 | 22 | | mg/kg | SW846 6010D |
| Beryllium | 0.49 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | 1660 | 550 | | mg/kg | SW846 6010D |
| Chromium | 11.1 | 1.1 | | mg/kg | SW846 6010D |
| Copper | 16.0 | 2.8 | | mg/kg | SW846 6010D |
| Iron | 11200 | 55 | | mg/kg | SW846 6010D |
| Lead | 13.4 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | 2430 | 550 | | mg/kg | SW846 6010D |
| Manganese | 276 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | 0.072 | 0.036 | | mg/kg | SW846 7471B |
| Nickel | 13.4 | 4.4 | | mg/kg | SW846 6010D |
| Potassium | 1100 | 1100 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36084
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|--------------------|----|-----|-------|--------|
|---------------|------------------|--------------------|----|-----|-------|--------|

| | | | | | | |
|----------|--|------|-----|--|-------|-------------|
| Vanadium | | 17.0 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | | 32.3 | 5.5 | | mg/kg | SW846 6010D |

JD36084-7A TT-SB-29-4.0-6.0

No hits reported in this sample.

JD36084-8 TT-SB-30-7.0-9.0

| | | | | | |
|--------------------------|--------|-------|-----|-------|-------------|
| Acetone | 8.8 J | 9.7 | 4.0 | ug/kg | SW846 8260D |
| Anthracene | 28.5 J | 36 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 75.6 | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 65.5 | 36 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 81.0 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 39.8 | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 28.7 J | 36 | 17 | ug/kg | SW846 8270E |
| Carbazole | 12.3 J | 73 | 5.3 | ug/kg | SW846 8270E |
| Chrysene | 77.7 | 36 | 11 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 27.0 J | 36 | 16 | ug/kg | SW846 8270E |
| Fluoranthene | 151 | 36 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 59.0 | 36 | 17 | ug/kg | SW846 8270E |
| Naphthalene | 11.7 J | 36 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | 139 | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | 161 | 36 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 360 J | | | ug/kg | |
| Aluminum | 5590 | 56 | | mg/kg | SW846 6010D |
| Arsenic | 3.8 | 2.2 | | mg/kg | SW846 6010D |
| Barium | 69.2 | 22 | | mg/kg | SW846 6010D |
| Beryllium | 0.48 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | 4280 | 560 | | mg/kg | SW846 6010D |
| Chromium | 13.4 | 1.1 | | mg/kg | SW846 6010D |
| Copper | 126 | 2.8 | | mg/kg | SW846 6010D |
| Iron | 12900 | 56 | | mg/kg | SW846 6010D |
| Lead | 164 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | 2720 | 560 | | mg/kg | SW846 6010D |
| Manganese | 174 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | 0.26 | 0.037 | | mg/kg | SW846 7471B |
| Nickel | 24.3 | 4.5 | | mg/kg | SW846 6010D |
| Potassium | 1460 | 1100 | | mg/kg | SW846 6010D |
| Vanadium | 19.6 | 5.6 | | mg/kg | SW846 6010D |
| Zinc | 100 | 5.6 | | mg/kg | SW846 6010D |

JD36084-8A TT-SB-30-7.0-9.0

No hits reported in this sample.

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36084-9 TT-SB-31-6.0-8.0

| | | | | | |
|---------------------------------|--------|-------|------|-------|--------------------|
| Acetone | 4.3 J | 8.4 | 3.5 | ug/kg | SW846 8260D |
| Carbon disulfide | 0.57 J | 1.7 | 0.45 | ug/kg | SW846 8260D |
| Acenaphthene | 17.8 J | 36 | 12 | ug/kg | SW846 8270E |
| Anthracene | 51.5 | 36 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 381 | 36 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 461 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 568 | 36 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 356 | 36 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 204 | 36 | 17 | ug/kg | SW846 8270E |
| Carbazole | 7.5 J | 72 | 5.2 | ug/kg | SW846 8270E |
| Chrysene | 362 | 36 | 11 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | 104 | 36 | 16 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 64.1 J | 72 | 8.5 | ug/kg | SW846 8270E |
| Fluoranthene | 545 | 36 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 429 | 36 | 17 | ug/kg | SW846 8270E |
| Phenanthrene | 136 | 36 | 12 | ug/kg | SW846 8270E |
| Pyrene | 644 | 36 | 12 | ug/kg | SW846 8270E |
| 1,4-Dioxane | 2.06 J | 3.6 | 1.8 | ug/kg | SW846 8270E BY SIM |
| Total TIC, Semi-Volatile | 720 J | | | ug/kg | |
| alpha-Chlordane ^e | 14.6 | 0.66 | 0.54 | ug/kg | SW846 8081B |
| gamma-Chlordane ^f | 21.2 | 0.66 | 0.30 | ug/kg | SW846 8081B |
| Dieldrin ^e | 4.1 | 0.66 | 0.46 | ug/kg | SW846 8081B |
| 4,4'-DDE ^f | 6.8 | 0.66 | 0.58 | ug/kg | SW846 8081B |
| 4,4'-DDT ^g | 2.7 | 0.66 | 0.59 | ug/kg | SW846 8081B |
| Heptachlor ^f | 3.2 | 0.66 | 0.57 | ug/kg | SW846 8081B |
| Heptachlor epoxide ^e | 3.0 | 0.66 | 0.47 | ug/kg | SW846 8081B |
| Aluminum | 4560 | 58 | | mg/kg | SW846 6010D |
| Barium | 34.8 | 23 | | mg/kg | SW846 6010D |
| Beryllium | 0.38 | 0.23 | | mg/kg | SW846 6010D |
| Calcium | 8460 | 580 | | mg/kg | SW846 6010D |
| Chromium | 10.9 | 1.2 | | mg/kg | SW846 6010D |
| Copper | 15.4 | 2.9 | | mg/kg | SW846 6010D |
| Iron | 10400 | 58 | | mg/kg | SW846 6010D |
| Lead | 32.2 | 2.3 | | mg/kg | SW846 6010D |
| Magnesium | 3060 | 580 | | mg/kg | SW846 6010D |
| Manganese | 136 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | 0.038 | 0.030 | | mg/kg | SW846 7471B |
| Nickel | 17.7 | 4.6 | | mg/kg | SW846 6010D |
| Vanadium | 18.5 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | 46.4 | 5.8 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36084-9A TT-SB-31-6.0-8.0

No hits reported in this sample.

JD36084-10 TT-SB-32-7.0-9.0

| | | | | | |
|--------------------|--------|------|-----|-------|--------------------|
| Benzo(a)anthracene | 14.9 J | 38 | 11 | ug/kg | SW846 8270E |
| Fluoranthene | 17.2 J | 38 | 17 | ug/kg | SW846 8270E |
| Pyrene | 17.7 J | 38 | 12 | ug/kg | SW846 8270E |
| 1,4-Dioxane | 2.09 J | 3.8 | 1.9 | ug/kg | SW846 8270E BY SIM |
| Aluminum | 5170 | 62 | | mg/kg | SW846 6010D |
| Arsenic | 2.7 | 2.5 | | mg/kg | SW846 6010D |
| Barium | 48.3 | 25 | | mg/kg | SW846 6010D |
| Beryllium | 0.46 | 0.25 | | mg/kg | SW846 6010D |
| Calcium | 1910 | 620 | | mg/kg | SW846 6010D |
| Chromium | 11.9 | 1.2 | | mg/kg | SW846 6010D |
| Copper | 12.2 | 3.1 | | mg/kg | SW846 6010D |
| Iron | 11500 | 62 | | mg/kg | SW846 6010D |
| Lead | 19.4 | 2.5 | | mg/kg | SW846 6010D |
| Magnesium | 2430 | 620 | | mg/kg | SW846 6010D |
| Manganese | 274 | 1.8 | | mg/kg | SW846 6010D |
| Nickel | 13.9 | 4.9 | | mg/kg | SW846 6010D |
| Potassium | 1270 | 1200 | | mg/kg | SW846 6010D |
| Sodium | 2510 | 1200 | | mg/kg | SW846 6010D |
| Vanadium | 19.2 | 6.2 | | mg/kg | SW846 6010D |
| Zinc | 36.2 | 6.2 | | mg/kg | SW846 6010D |

JD36084-10A TT-SB-32-7.0-9.0

No hits reported in this sample.

JD36084-11 TT-SB-33-4.5-6.5

| | | | | | |
|----------------------|--------|-----|-----|-------|-------------|
| Acetone | 17.0 | 9.9 | 4.1 | ug/kg | SW846 8260D |
| Acenaphthene | 27.8 J | 35 | 12 | ug/kg | SW846 8270E |
| Acenaphthylene | 90.9 | 35 | 18 | ug/kg | SW846 8270E |
| Anthracene | 146 | 35 | 22 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | 746 | 35 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 965 | 35 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 985 | 35 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 593 | 35 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 361 | 35 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | 5.5 J | 71 | 4.8 | ug/kg | SW846 8270E |
| Carbazole | 15.7 J | 71 | 5.1 | ug/kg | SW846 8270E |
| Chrysene | 702 | 35 | 11 | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD36084
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/01/21 thru 12/02/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-----|-------|-------------|
| | | 157 | 35 | 16 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 34.7 J | 71 | 14 | ug/kg | SW846 8270E |
| Dibenzofuran | | 1200 | 35 | 16 | ug/kg | SW846 8270E |
| Fluoranthene | | 35.8 | 35 | 16 | ug/kg | SW846 8270E |
| Fluorene | | 735 | 35 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 8.7 J | 35 | 8.0 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 23.7 J | 35 | 10 | ug/kg | SW846 8270E |
| Naphthalene | | 282 | 35 | 12 | ug/kg | SW846 8270E |
| Phenanthrene | | 1350 | 35 | 11 | ug/kg | SW846 8270E |
| Pyrene | | 4020 J | | | ug/kg | |
| Total TIC, Semi-Volatile | | 5120 | 58 | | mg/kg | SW846 6010D |
| Aluminum | | 3.2 | 2.3 | | mg/kg | SW846 6010D |
| Arsenic | | 35.8 | 23 | | mg/kg | SW846 6010D |
| Barium | | 0.37 | 0.23 | | mg/kg | SW846 6010D |
| Beryllium | | 1760 | 580 | | mg/kg | SW846 6010D |
| Calcium | | 12.0 | 1.2 | | mg/kg | SW846 6010D |
| Chromium | | 22.7 | 2.9 | | mg/kg | SW846 6010D |
| Copper | | 10000 | 58 | | mg/kg | SW846 6010D |
| Iron | | 45.0 | 2.3 | | mg/kg | SW846 6010D |
| Lead | | 2180 | 580 | | mg/kg | SW846 6010D |
| Magnesium | | 167 | 1.7 | | mg/kg | SW846 6010D |
| Manganese | | 0.10 | 0.034 | | mg/kg | SW846 7471B |
| Mercury | | 20.8 | 4.6 | | mg/kg | SW846 6010D |
| Nickel | | 16.2 | 5.8 | | mg/kg | SW846 6010D |
| Vanadium | | 47.9 | 5.8 | | mg/kg | SW846 6010D |
| Zinc | | | | | | |

JD36084-11A TT-SB-33-4.5-6.5

No hits reported in this sample.

- (a) Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time. More than 40 % RPD for detected concentrations between the two GC columns.
- (b) Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- (c) Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time. Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- (d) Analysis performed at SGS Orlando, FL.
- (e) Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time. More than 40 % RPD for detected concentrations between the two GC columns.
- (f) Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
- (g) Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time. Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240355.D | 1 | 12/04/21 14:01 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 19.1 | 10 | 4.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.50 | 0.46 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.56 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.43 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.77 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.54 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.62 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.46 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.59 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.52 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.66 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.70 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.56 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.55 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.73 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.47 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.66 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.84 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.61 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.48 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.48 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.46 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.46 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.0 | 0.88 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.47 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.0 | 0.40 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.60 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 0.58 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 0.49 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 0.56 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.77 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.69 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.48 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.90 | ug/kg | |
| 95-47-6 | o-Xylene | 0.74 | 1.0 | 0.46 | ug/kg | J |
| 1330-20-7 | Xylene (total) | 0.74 | 1.0 | 0.46 | ug/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 99% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204086.D | 1 | 12/06/21 19:24 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 98 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 32.0 | 37 | 13 | ug/kg | J |
| 208-96-8 | Acenaphthylene | 23.4 | 37 | 19 | ug/kg | J |
| 98-86-2 | Acetophenone | ND | 180 | 7.9 | ug/kg | |
| 120-12-7 | Anthracene | 91.4 | 37 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 381 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 364 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 454 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 258 | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 160 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 73 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 28.4 | 73 | 5.3 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 381 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 86.3 | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | 16.7 | 73 | 15 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 73 | 8.6 | ug/kg | |
| 206-44-0 | Fluoranthene | 752 | 37 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 26.9 | 37 | 17 | ug/kg | J |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.3 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 311 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 37 | 8.3 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 362 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 801 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 38% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | |
| Lab Sample ID: | JD36084-1 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8270E SW846 3546 | Percent Solids: 90.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 38% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 47% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 36% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 43% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 46% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|------------|------------------------------------|-------|------------|-------|----|
| | System artifact | 3.22 | 160 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 210 | ug/kg | J |
| 13798-23-7 | Sulfur | 7.11 | 170 | ug/kg | JN |
| | Sulfur | 8.91 | 190 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 9.67 | 160 | ug/kg | JN |
| | Unknown | 10.06 | 150 | ug/kg | J |
| | Anthracene dimethyl | 10.53 | 190 | ug/kg | J |
| | Unknown | 10.65 | 180 | ug/kg | J |
| | Unknown | 10.70 | 170 | ug/kg | J |
| 10544-50-0 | Cyclic octaatomic sulfur | 10.88 | 3900 | ug/kg | JN |
| | Unknown PAH substance | 16.69 | 290 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 5400 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-24-6.5-8.5 | |
| Lab Sample ID: JD36084-1 | Date Sampled: 12/01/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 90.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105390.D | 1 | 12/22/21 07:06 | CS | 12/04/21 10:20 | OP36957A | E4M4895 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 48% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 44% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 49% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-24-6.5-8.5 | |
| Lab Sample ID: JD36084-1 | Date Sampled: 12/01/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 90.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155527.D | 1 | 12/10/21 05:07 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 7.9 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 46% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 33% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172467.D | 1 | 12/31/21 00:43 | RK | 12/17/21 14:30 | OP37171 | G1G5954 |
| Run #2 ^b | 1G172004.D | 1 | 12/13/21 08:32 | CP | 12/06/21 11:35 | OP36961 | G1G5934 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.9 g | 10.0 ml |
| Run #2 | 15.5 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^c | 1.9 | 0.65 | 0.54 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.65 | 0.53 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.65 | 0.59 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.65 | 0.63 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^c | 2.3 | 0.65 | 0.48 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | 2.8 | 0.65 | 0.53 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^c | 2.4 | 0.65 | 0.30 | ug/kg | |
| 60-57-1 | Dieldrin ^c | 1.1 | 0.65 | 0.45 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 5.8 | 0.65 | 0.60 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 5.7 | 0.65 | 0.57 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^d | 3.5 | 0.65 | 0.58 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.65 | 0.51 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.65 | 0.51 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.65 | 0.37 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.65 | 0.38 | ug/kg | |
| 33213-65-9 | Endosulfan-II | 2.7 | 0.65 | 0.41 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.65 | 0.56 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^c | 0.84 | 0.65 | 0.46 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.52 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.65 | 0.47 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 16 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 105% | 125% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 100% | 127% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 87% | 166% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 206% ^e | 286% ^e | 10-197% |

(a) Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.

(b) Had TBA cleanup. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-24-6.5-8.5 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-1 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.5 |
| Method: SW846 8081B SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.1

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|----|-----|-------|---|
|---------|----------|--------|----|-----|-------|---|

- (c) More than 40 % RPD for detected concentrations between the two GC columns.
- (d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- (e) Outside control limits due to matrix interference.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | |
| Lab Sample ID: | JD36084-1 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 90.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7030.D | 1 | 12/08/21 08:56 | RK | 12/06/21 11:35 | OP36962 | GRK182 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 105% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 105% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 67% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 177% ^a | | 10-172% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|
| Aluminum | 4260 | 56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Arsenic | 2.8 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Barium | 49.9 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Beryllium | 0.24 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Cadmium | < 0.56 | 0.56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Calcium | 35300 | 1100 | mg/kg | 2 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ |
| Chromium | 10.3 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Cobalt | < 5.6 | 5.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Copper | 12.6 | 2.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Iron | 9130 | 56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Lead | 87.1 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Magnesium | 7890 | 560 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Manganese | 193 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Mercury | 0.24 | 0.029 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ |
| Nickel | 17.2 | 4.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Silver | < 0.56 | 0.56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Vanadium | 15.1 | 5.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |
| Zinc | 48.5 | 5.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² |

- (1) Instrument QC Batch: MA51535
- (2) Instrument QC Batch: MA51558
- (3) Instrument QC Batch: MA51564
- (4) Prep QC Batch: MP30189
- (5) Prep QC Batch: MP30190

RL = Reporting Limit

4.1

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-24-6.5-8.5 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-1 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 90.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 03:03 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.5 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24-6.5-8.5 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-1A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82024.D | 1 | 12/22/21 03:04 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.98 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-24-6.5-8.5 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-1A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.5 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 85% | | 40-140% |
| | 13C5-PFPeA | 88% | | 50-150% |
| | 13C5-PFHxA | 90% | | 50-150% |
| | 13C4-PFHpA | 92% | | 50-150% |
| | 13C8-PFOA | 92% | | 50-150% |
| | 13C9-PFNA | 92% | | 50-150% |
| | 13C6-PFDA | 90% | | 50-150% |
| | 13C7-PFUnDA | 87% | | 40-140% |
| | 13C2-PFDoDA | 92% | | 40-140% |
| | 13C2-PFTeDA | 98% | | 30-130% |
| | 13C3-PFBS | 86% | | 50-150% |
| | 13C3-PFHxS | 87% | | 50-150% |
| | 13C8-PFOS | 86% | | 50-150% |
| | 13C8-FOSA | 59% | | 30-130% |
| | d3-MeFOSAA | 97% | | 40-140% |
| | d5-EtFOSAA | 91% | | 40-140% |
| | 13C2-6:2FTS | 86% | | 50-150% |
| | 13C2-8:2FTS | 88% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-25-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-2 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.1 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #2 | I240356.D | 1 | 12/04/21 14:22 | PS | 12/03/21 08:00 | n/a | VI9771 |

| Run #1 | Initial Weight |
|--------|----------------|
| Run #2 | 6.2 g |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.1 | 3.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.45 | 0.41 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.5 | 0.51 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.8 | 0.39 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.5 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.5 | 0.69 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.1 | 2.2 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.8 | 0.48 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.8 | 0.56 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.8 | 0.42 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.5 | 0.53 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.8 | 0.47 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.5 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.8 | 0.59 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.8 | 0.63 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.8 | 0.51 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.91 | 0.38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.91 | 0.49 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.91 | 0.45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.91 | 0.45 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.5 | 0.66 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.91 | 0.45 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.91 | 0.43 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.91 | 0.59 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.91 | 0.76 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.91 | 0.55 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.8 | 0.43 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.8 | 0.43 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.8 | 0.41 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.91 | 0.41 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.5 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.5 | 1.9 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-25-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-2 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.1 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.8 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.5 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.8 | 0.79 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.91 | 0.42 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.5 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.5 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.8 | 0.36 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.8 | 0.54 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.8 | 0.52 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.91 | 0.48 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.8 | 0.44 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.8 | 0.50 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.91 | 0.69 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.5 | 0.62 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.8 | 0.44 | ug/kg | |
| | m,p-Xylene | ND | 0.91 | 0.81 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.91 | 0.41 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.91 | 0.41 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 101% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-25-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-2 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.1 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204077.D | 1 | 12/06/21 15:12 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 21.8 | 36 | 12 | ug/kg | J |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 48.0 | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 97.6 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 80.3 | 36 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 99.6 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 48.4 | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 39.9 | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.8 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 72 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.6 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 18.7 | 72 | 5.2 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-25-7.0-9.0 Lab Sample ID: JD36084-2 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 89.1 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 50% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 59% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 48% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 59% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact | 3.22 | 200 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 260 | ug/kg | J |
| | Unknown | 12.97 | 330 | ug/kg | J |
| | Unknown | 20.31 | 350 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 680 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-25-7.0-9.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-2 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105396.D | 1 | 12/22/21 09:09 | CS | 12/04/21 10:20 | OP36957A | E4M4895 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 55% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 65% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-25-7.0-9.0 Lab Sample ID: JD36084-2 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 89.1 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155528.D | 1 | 12/10/21 05:34 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.9 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.4 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.3 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.3 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 46% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 55% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-25-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-2 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.1 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171967.D | 1 | 12/12/21 19:30 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.9 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^a | ND | 0.66 | 0.55 | ug/kg | |
| 319-84-6 | alpha-BHC ^a | ND | 0.66 | 0.54 | ug/kg | |
| 319-85-7 | beta-BHC ^a | ND | 0.66 | 0.60 | ug/kg | |
| 319-86-8 | delta-BHC ^a | ND | 0.66 | 0.64 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^a | ND | 0.66 | 0.49 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^a | ND | 0.66 | 0.54 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^a | ND | 0.66 | 0.30 | ug/kg | |
| 60-57-1 | Dieldrin ^a | ND | 0.66 | 0.46 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | ND | 0.66 | 0.61 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^a | ND | 0.66 | 0.58 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | ND | 0.66 | 0.59 | ug/kg | |
| 72-20-8 | Endrin ^a | ND | 0.66 | 0.52 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate ^a | ND | 0.66 | 0.52 | ug/kg | |
| 7421-93-4 | Endrin aldehyde ^a | ND | 0.66 | 0.38 | ug/kg | |
| 959-98-8 | Endosulfan-I ^a | ND | 0.66 | 0.38 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^a | ND | 0.66 | 0.41 | ug/kg | |
| 76-44-8 | Heptachlor ^a | ND | 0.66 | 0.57 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^a | ND | 0.66 | 0.47 | ug/kg | |
| 72-43-5 | Methoxychlor ^a | ND | 1.3 | 0.53 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.66 | 0.48 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 59% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 58% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 49% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 55% | | 10-197% |

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-25-7.0-9.0 | |
| Lab Sample ID: JD36084-2 | Date Sampled: 12/01/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: SW846 8082A SW846 3546 | Percent Solids: 89.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7031.D | 1 | 12/08/21 09:13 | RK | 12/06/21 11:35 | OP36962 | GRK182 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.9 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 33 | 15 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 33 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 33 | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 33 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 33 | 30 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 33 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 33 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 33 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 33 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 63% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 60% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 35% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 66% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-25-7.0-9.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-2 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 6110 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Arsenic | 5.2 | 2.3 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Barium | 37.0 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.38 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Calcium | 1080 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Chromium | 11.7 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | < 5.8 | 5.8 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Copper | 37.5 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 11200 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 55.2 | 2.3 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Magnesium | 2180 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 239 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | 0.079 | 0.034 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ SW846 7471B ⁵ |
| Nickel | 14.5 | 4.6 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Vanadium | 17.4 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 50.9 | 5.8 | mg/kg | 1 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA51535
- (2) Instrument QC Batch: MA51558
- (3) Instrument QC Batch: MA51564
- (4) Prep QC Batch: MP30189
- (5) Prep QC Batch: MP30190

RL = Reporting Limit

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-25-7.0-9.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-2 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.3

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | 1.9 | 0.22 | mg/kg | 1 | 12/09/21 03:10 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.1 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-25-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-2A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.1 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82025.D | 1 | 12/22/21 03:22 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.01 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-25-7.0-9.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-2A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.1 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 85% | | 40-140% |
| | 13C5-PFPeA | 88% | | 50-150% |
| | 13C5-PFHxA | 91% | | 50-150% |
| | 13C4-PFHpA | 93% | | 50-150% |
| | 13C8-PFOA | 93% | | 50-150% |
| | 13C9-PFNA | 92% | | 50-150% |
| | 13C6-PFDA | 95% | | 50-150% |
| | 13C7-PFUnDA | 94% | | 40-140% |
| | 13C2-PFDoDA | 95% | | 40-140% |
| | 13C2-PFTeDA | 97% | | 30-130% |
| | 13C3-PFBS | 88% | | 50-150% |
| | 13C3-PFHxS | 87% | | 50-150% |
| | 13C8-PFOS | 88% | | 50-150% |
| | 13C8-FOSA | 94% | | 30-130% |
| | d3-MeFOSAA | 86% | | 40-140% |
| | d5-EtFOSAA | 83% | | 40-140% |
| | 13C2-6:2FTS | 85% | | 50-150% |
| | 13C2-8:2FTS | 90% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-26-6.0-8.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-3 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #2 | I240368.D | 1 | 12/04/21 18:26 | PS | 12/03/21 08:00 | n/a | VI9771 |

| Run #1 | Initial Weight |
|--------|----------------|
| Run #2 | 5.9 g |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 23.6 | 9.4 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.53 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.72 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | 4.5 | 9.4 | 2.3 | ug/kg | J |
| 75-15-0 | Carbon disulfide | 0.81 | 1.9 | 0.50 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.56 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.49 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.62 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.53 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.94 | 0.40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.94 | 0.52 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.69 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.94 | 0.47 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.94 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.94 | 0.62 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.94 | 0.79 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.94 | 0.58 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.45 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.45 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | 0.90 | 0.94 | 0.43 | ug/kg | J |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-26-6.0-8.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-3 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | 8.0 | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.83 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.94 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.57 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.55 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.94 | 0.50 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.46 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.94 | 0.72 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.65 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | 1.3 | 0.94 | 0.85 | ug/kg | |
| 95-47-6 | o-Xylene | 0.95 | 0.94 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | 2.3 | 0.94 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 87% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|---|-------|------------|-------|----|
| 496-11-7 | Indane | 9.96 | 280 | ug/kg | JN |
| | C4 alkyl benzene | 10.22 | 97 | ug/kg | J |
| | C4 alkyl benzene | 10.54 | 97 | ug/kg | J |
| | alkane | 10.92 | 130 | ug/kg | J |
| | C5 alkyl benzene | 10.99 | 82 | ug/kg | J |
| | C5 alkyl benzene | 11.22 | 110 | ug/kg | J |
| | 1H-indene-dihydro-dimethyl - isome | 11.39 | 69 | ug/kg | J |
| | alkane | 11.45 | 190 | ug/kg | J |
| | Naphthalene, tetrahydro -methyl- isomer | 11.68 | 130 | ug/kg | J |
| | 1H-indene-dihydro-dimethyl - isome | 11.78 | 120 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-3 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.8 |
| Method: SW846 8260D SW846 5035 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|--|-------|-------------|--------------|----------|
| | alkane | 11.90 | 170 | ug/kg | J |
| | alkene | 12.02 | 100 | ug/kg | J |
| | Naphthalene, tetrahydro-dimethyl -isomer | 12.18 | 71 | ug/kg | J |
| | alkane | 12.54 | 120 | ug/kg | J |
| | Naphthalene, methyl-isomer | 13.11 | 260 | ug/kg | J |
| | Total TIC, Volatile | | 2026 | ug/kg | J |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-26-6.0-8.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-3 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #2 | F204089.D | 1 | 12/06/21 20:40 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #2 | 30.5 g | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 3590 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 25.6 | 37 | 19 | ug/kg | J |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 153 | 37 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 96.4 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 74.5 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 99.2 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 55.6 | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 30.5 | 37 | 17 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 26.3 | 73 | 5.0 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 96.6 | 73 | 5.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-26-6.0-8.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-3 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 98.9 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 32.6 | 37 | 16 | ug/kg | J |
| 132-64-9 | Dibenzofuran | 1570 | 73 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 68.6 | 73 | 8.5 | ug/kg | J |
| 206-44-0 | Fluoranthene | 415 | 37 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 1350 | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 76.1 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 446 | 37 | 8.3 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.5 | ug/kg | |
| 91-20-3 | Naphthalene | 372 | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 1810 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 328 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 48% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-26-6.0-8.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-3 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 45% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 52% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 45% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 51% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 51% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|------------|------------------------------------|-------|------------|-------|----|
| | System artifact | 3.22 | 190 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 750 | ug/kg | J |
| | Pyridine, -dimethyl- | 3.96 | 310 | ug/kg | J |
| 496-11-7 | Indane | 4.66 | 310 | ug/kg | JN |
| | Naphthalene tetrahydro-methyl | 5.59 | 190 | ug/kg | J |
| | Alkane | 5.76 | 350 | ug/kg | J |
| | Alkane | 5.88 | 190 | ug/kg | J |
| 90-12-0 | Naphthalene, 1-methyl- | 6.04 | 820 | ug/kg | JN |
| | Naphthalene dimethyl | 6.45 | 410 | ug/kg | J |
| | Naphthalene dimethyl | 6.52 | 440 | ug/kg | J |
| | Alkane | 6.58 | 270 | ug/kg | J |
| | Naphthalene dimethyl | 6.62 | 280 | ug/kg | J |
| | Alkane | 7.56 | 410 | ug/kg | J |
| | [1,1'-Biphenyl]-carboxaldehyde | 7.59 | 180 | ug/kg | J |
| | Alkane | 7.92 | 790 | ug/kg | J |
| 132-65-0 | Dibenzothiophene | 8.49 | 210 | ug/kg | JN |
| | Alkane | 9.30 | 180 | ug/kg | J |
| | Anthracene methyl | 9.54 | 210 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 9.67 | 220 | ug/kg | JN |
| | Alkane | 10.08 | 250 | ug/kg | J |
| | Alkane | 10.65 | 190 | ug/kg | J |
| | Unknown | 10.71 | 190 | ug/kg | J |
| 10544-50-0 | Cyclic octaatomic sulfur | 10.88 | 3300 | ug/kg | JN |
| | Unknown | 10.99 | 220 | ug/kg | J |
| | Alkane | 14.07 | 200 | ug/kg | J |
| | Alkane | 14.82 | 230 | ug/kg | J |
| | Unknown | 18.08 | 230 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 10580 | ug/kg | J |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-3 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.8 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105391.D | 1 | 12/22/21 07:26 | CS | 12/04/21 10:20 | OP36957A | E4M4895 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 53% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 58% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-3 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.8 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155529.D | 1 | 12/10/21 06:03 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.6 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.5 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.4 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.4 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 38% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 30% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-26-6.0-8.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-3 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.8 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172468.D | 1 | 12/31/21 01:01 | RK | 12/17/21 14:30 | OP37171 | G1G5954 |
| Run #2 ^b | 1G172005.D | 1 | 12/13/21 08:50 | CP | 12/06/21 11:35 | OP36961 | G1G5934 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | 15.4 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.72 | 0.60 | ug/kg | |
| 319-84-6 | alpha-BHC ^c | 1.9 | 0.72 | 0.59 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.72 | 0.65 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.72 | 0.69 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.72 | 0.53 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.72 | 0.58 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^c | 2.0 | 0.72 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.72 | 0.50 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 17.9 | 0.72 | 0.66 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 5.4 | 0.72 | 0.63 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.72 | 0.64 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.72 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.72 | 0.56 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.72 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.72 | 0.42 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.72 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.72 | 0.62 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.72 | 0.51 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.57 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.72 | 0.52 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 118% | 112% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 106% | 106% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 101% | 104% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 149% | 137% | 10-197% |

(a) Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.

(b) Had TBA cleanup. Confirmation run.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-3 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.8 |
| Method: SW846 8081B SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|----|-----|-------|---|
|---------|----------|--------|----|-----|-------|---|

(c) More than 40 % RPD for detected concentrations between the two GC columns.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-26-6.0-8.0 Lab Sample ID: JD36084-3 Matrix: SO - Soil Method: SW846 8082A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 89.8 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7032.D | 1 | 12/08/21 09:29 | RK | 12/06/21 11:35 | OP36962 | GRK182 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 111% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 56% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 97% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-26-6.0-8.0 Lab Sample ID: JD36084-3 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 89.8 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 4270 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Arsenic | 3.9 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Barium | 81.7 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Beryllium | 0.28 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Calcium | 29800 | 1200 | mg/kg | 2 | 12/06/21 | 12/08/21 | ND | SW846 6010D ³ SW846 3050B ⁴ |
| Chromium | 9.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Cobalt | < 5.8 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Copper | 10.7 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Iron | 9130 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Lead | 53.6 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Magnesium | 8370 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Manganese | 582 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Mercury | 0.060 | 0.031 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ SW846 7471B ⁵ |
| Nickel | 12.6 | 4.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Vanadium | 21.4 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |
| Zinc | 77.0 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA51535
- (2) Instrument QC Batch: MA51558
- (3) Instrument QC Batch: MA51564
- (4) Prep QC Batch: MP30189
- (5) Prep QC Batch: MP30190

RL = Reporting Limit

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-3 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.8 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.5

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 03:12 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.8 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | |
| Lab Sample ID: JD36084-3A | Date Sampled: 12/01/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 89.8 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82026.D | 1 | 12/22/21 03:41 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.01 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-26-6.0-8.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-3A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.8 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 86% | | 40-140% |
| | 13C5-PFPeA | 89% | | 50-150% |
| | 13C5-PFHxA | 92% | | 50-150% |
| | 13C4-PFHpA | 94% | | 50-150% |
| | 13C8-PFOA | 93% | | 50-150% |
| | 13C9-PFNA | 95% | | 50-150% |
| | 13C6-PFDA | 95% | | 50-150% |
| | 13C7-PFUnDA | 91% | | 40-140% |
| | 13C2-PFDoDA | 95% | | 40-140% |
| | 13C2-PFTeDA | 99% | | 30-130% |
| | 13C3-PFBS | 89% | | 50-150% |
| | 13C3-PFHxS | 88% | | 50-150% |
| | 13C8-PFOS | 89% | | 50-150% |
| | 13C8-FOSA | 89% | | 30-130% |
| | d3-MeFOSAA | 89% | | 40-140% |
| | d5-EtFOSAA | 86% | | 40-140% |
| | 13C2-6:2FTS | 86% | | 50-150% |
| | 13C2-8:2FTS | 93% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-4 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240357.D | 1 | 12/04/21 14:42 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.3 | 3.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.46 | 0.42 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.6 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.6 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.6 | 0.71 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.3 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.57 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.6 | 0.55 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.48 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.6 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.61 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.64 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.52 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.93 | 0.39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.93 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.6 | 0.68 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.93 | 0.46 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.93 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.93 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.93 | 0.78 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.93 | 0.57 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.44 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.42 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.93 | 0.42 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.6 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.6 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-4 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.6 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.81 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.93 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.6 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.6 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.37 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.54 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.93 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.6 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.6 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.45 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.51 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.93 | 0.71 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.6 | 0.64 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.93 | 0.83 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.93 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.93 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 101% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-4 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204078.D | 1 | 12/06/21 16:02 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | ND | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 36 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.8 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 72 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.6 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 72 | 5.2 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-4 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 72 | 14 | ug/kg | |
| 218-01-9 | Chrysene | ND | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 72 | 7.7 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 72 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 72 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 72 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 72 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 72 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 72 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 72 | 9.0 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 72 | 7.7 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 72 | 6.4 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 72 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 72 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 72 | 7.7 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.5 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.0 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 72 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 72 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | ND | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 40% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-27-5.0-7.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-4 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.7 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 39% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 46% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 37% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 43% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 47% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact | 3.22 | 160 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 190 | ug/kg | J |
| | Unknown | 12.98 | 370 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 370 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-27-5.0-7.0 | |
| Lab Sample ID: JD36084-4 | Date Sampled: 12/01/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 89.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105421.D | 1 | 12/23/21 00:18 | NAP | 12/04/21 10:20 | OP36957A | E4M4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 50% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 44% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 51% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-27-5.0-7.0 Lab Sample ID: JD36084-4 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 89.7 |
|--|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155530.D | 1 | 12/10/21 06:31 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.2 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.7 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.7 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 21% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 17% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-4 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171969.D | 1 | 12/12/21 20:06 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.0 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^a | ND | 0.74 | 0.61 | ug/kg | |
| 319-84-6 | alpha-BHC ^a | ND | 0.74 | 0.60 | ug/kg | |
| 319-85-7 | beta-BHC ^a | ND | 0.74 | 0.67 | ug/kg | |
| 319-86-8 | delta-BHC ^a | ND | 0.74 | 0.71 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^a | ND | 0.74 | 0.55 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^a | ND | 0.74 | 0.60 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^a | ND | 0.74 | 0.34 | ug/kg | |
| 60-57-1 | Dieldrin ^a | ND | 0.74 | 0.51 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | ND | 0.74 | 0.68 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^a | ND | 0.74 | 0.65 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | ND | 0.74 | 0.66 | ug/kg | |
| 72-20-8 | Endrin ^a | ND | 0.74 | 0.58 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate ^a | ND | 0.74 | 0.58 | ug/kg | |
| 7421-93-4 | Endrin aldehyde ^a | ND | 0.74 | 0.42 | ug/kg | |
| 959-98-8 | Endosulfan-I ^a | ND | 0.74 | 0.43 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^a | ND | 0.74 | 0.46 | ug/kg | |
| 76-44-8 | Heptachlor ^a | ND | 0.74 | 0.64 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^a | ND | 0.74 | 0.52 | ug/kg | |
| 72-43-5 | Methoxychlor ^a | ND | 1.5 | 0.59 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.74 | 0.54 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 129% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 130% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 115% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 128% | | 10-197% |

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | |
| Lab Sample ID: | JD36084-4 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 89.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7033.D | 1 | 12/08/21 09:46 | RK | 12/06/21 11:35 | OP36962 | GRK182 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.0 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 37 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 37 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 37 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 37 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 37 | 33 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 37 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 37 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 37 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 37 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 146% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 142% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 83% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 124% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-27-5.0-7.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-4 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|---------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 7040 | 59 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Arsenic | 3.2 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Barium | 35.1 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Beryllium | 0.52 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cadmium | < 0.59 | 0.59 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Calcium | 1120 | 590 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Chromium | 12.7 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cobalt | < 5.9 | 5.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Copper | 11.3 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Iron | 11900 | 59 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Lead | 25.0 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Magnesium | 2080 | 590 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Manganese | 232 | 1.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Mercury | < 0.029 | 0.029 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 13.4 | 4.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Silver | < 0.59 | 0.59 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Vanadium | 21.1 | 5.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Zinc | 35.8 | 5.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-27-5.0-7.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-4 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 03:13 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.7 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27-5.0-7.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-4A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82027.D | 1 | 12/22/21 03:59 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.02 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.35 | 0.55 | 0.28 | ug/kg | J |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-27-5.0-7.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-4A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.7 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 82% | | 40-140% |
| | 13C5-PFPeA | 85% | | 50-150% |
| | 13C5-PFHxA | 88% | | 50-150% |
| | 13C4-PFHpA | 91% | | 50-150% |
| | 13C8-PFOA | 89% | | 50-150% |
| | 13C9-PFNA | 90% | | 50-150% |
| | 13C6-PFDA | 93% | | 50-150% |
| | 13C7-PFUnDA | 89% | | 40-140% |
| | 13C2-PFDoDA | 91% | | 40-140% |
| | 13C2-PFTeDA | 93% | | 30-130% |
| | 13C3-PFBS | 83% | | 50-150% |
| | 13C3-PFHxS | 85% | | 50-150% |
| | 13C8-PFOS | 87% | | 50-150% |
| | 13C8-FOSA | 88% | | 30-130% |
| | d3-MeFOSAA | 68% | | 40-140% |
| | d5-EtFOSAA | 69% | | 40-140% |
| | 13C2-6:2FTS | 81% | | 50-150% |
| | 13C2-8:2FTS | 87% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | SDUP-02 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-5 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240358.D | 1 | 12/04/21 15:02 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 14.9 | 9.1 | 3.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.45 | 0.41 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.5 | 0.51 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.8 | 0.39 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.5 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.5 | 0.69 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.1 | 2.2 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.8 | 0.49 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.8 | 0.56 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.8 | 0.42 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.5 | 0.54 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.8 | 0.47 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.5 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.8 | 0.60 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.8 | 0.63 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.8 | 0.51 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.91 | 0.38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.91 | 0.50 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.91 | 0.45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.91 | 0.45 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.5 | 0.66 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.91 | 0.45 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.91 | 0.43 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.91 | 0.59 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.91 | 0.76 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.91 | 0.55 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.8 | 0.43 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.8 | 0.43 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.8 | 0.41 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.91 | 0.41 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.5 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.5 | 1.9 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: SDUP-02 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-5 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: SW846 8260D SW846 5035 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.8 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.5 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.8 | 0.79 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.91 | 0.43 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.5 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.5 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.8 | 0.36 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.8 | 0.54 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.8 | 0.53 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.91 | 0.48 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.8 | 0.44 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.8 | 0.50 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.91 | 0.69 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.5 | 0.62 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.8 | 0.44 | ug/kg | |
| | m,p-Xylene | ND | 0.91 | 0.81 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.91 | 0.42 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.91 | 0.42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | SDUP-02 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-5 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204090.D | 1 | 12/06/21 21:05 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 53.5 | 36 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | 91.0 | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 303 | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1780 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1560 | 36 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1940 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 892 | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 690 | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.8 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 72 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.6 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 45.3 | 72 | 5.2 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | SDUP-02 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-5 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 72 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 1700 | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 72 | 7.7 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 72 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 72 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 72 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 72 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 281 | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | 24.5 | 72 | 15 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 72 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 72 | 9.0 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 72 | 7.7 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 72 | 6.4 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 72 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | 3090 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 45.7 | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 72 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1110 | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 72 | 7.7 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.5 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.0 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | 10.1 | 36 | 10 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 72 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 72 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 1050 | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 3030 | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 47% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--|
| Client Sample ID: SDUP-02 Lab Sample ID: JD36084-5 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 90.3 |
|---|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 46% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 59% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 43% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 53% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 55% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|------------|------------------------------------|-------|------------|-------|----|
| | System artifact | 3.22 | 180 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 220 | ug/kg | J |
| | Sulfur | 8.93 | 200 | ug/kg | J |
| | Anthracene methyl | 9.50 | 250 | ug/kg | J |
| | Phenanthrene methyl | 9.54 | 320 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 9.68 | 500 | ug/kg | JN |
| | Phenanthrene methyl | 9.73 | 280 | ug/kg | J |
| | Naphthalene phenyl | 10.06 | 380 | ug/kg | J |
| | Phenanthrene dimethyl | 10.54 | 300 | ug/kg | J |
| | Unknown | 10.59 | 170 | ug/kg | J |
| 10544-50-0 | Cyclic octaatomic sulfur | 10.89 | 2900 | ug/kg | JN |
| | 11H-Benzofluorene | 11.98 | 230 | ug/kg | J |
| | 11H-Benzofluorene | 12.13 | 160 | ug/kg | J |
| | Unknown ketone | 13.08 | 170 | ug/kg | J |
| | Benzonaphthothiophene | 13.32 | 150 | ug/kg | J |
| | Unknown | 13.40 | 200 | ug/kg | J |
| | Unknown | 14.10 | 150 | ug/kg | J |
| | Chrysene methyl | 14.81 | 190 | ug/kg | J |
| | Unknown PAH substance | 16.38 | 400 | ug/kg | J |
| | Unknown PAH substance | 16.72 | 1100 | ug/kg | J |
| | Unknown PAH substance | 18.70 | 360 | ug/kg | J |
| | Unknown PAH substance | 19.10 | 290 | ug/kg | J |
| | Unknown PAH substance | 19.15 | 150 | ug/kg | J |
| | Unknown PAH substance | 19.51 | 210 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 9060 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|--|--|
| Client Sample ID: SDUP-02 Lab Sample ID: JD36084-5 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 90.3 |
|--|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105392.D | 1 | 12/22/21 07:47 | CS | 12/04/21 10:20 | OP36957A | E4M4895 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 58% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 53% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 63% | | 17-105% | | |

| | |
|--|--|
| ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range | MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound |
|--|--|

4.9

Report of Analysis

| | |
|---|--|
| Client Sample ID: SDUP-02 Lab Sample ID: JD36084-5 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 90.3 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155531.D | 1 | 12/10/21 06:59 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.7 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.4 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.3 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.3 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 55% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 42% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | SDUP-02 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-5 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172469.D | 1 | 12/31/21 01:19 | RK | 12/17/21 14:30 | OP37171 | G1G5954 |
| Run #2 ^b | 1G172006.D | 1 | 12/13/21 09:08 | CP | 12/06/21 11:35 | OP36961 | G1G5934 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 10.0 ml |
| Run #2 | 15.6 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.68 | 0.56 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.68 | 0.56 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.68 | 0.62 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.68 | 0.66 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^c | 2.1 | 0.68 | 0.50 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.68 | 0.55 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.68 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.68 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 3.2 | 0.68 | 0.63 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 3.1 | 0.68 | 0.60 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.68 | 0.61 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.68 | 0.53 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.68 | 0.53 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.68 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.68 | 0.39 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.68 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.68 | 0.59 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.68 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.54 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.68 | 0.49 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 45% | 57% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 42% | 58% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 33% | 53% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 63% | 82% | 10-197% |

(a) Had TBA cleanup. Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.

(b) Had TBA cleanup. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: SDUP-02 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-5 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: SW846 8081B SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.9

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|----|-----|-------|---|
|---------|----------|--------|----|-----|-------|---|

(c) More than 40 % RPD for detected concentrations between the two GC columns.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | SDUP-02 | |
| Lab Sample ID: | JD36084-5 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 90.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7034.D | 1 | 12/08/21 10:02 | RK | 12/06/21 11:35 | OP36962 | GRK182 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 35 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 40% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 39% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 26% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 45% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | SDUP-02 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-5 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 4840 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic | 3.5 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Barium | 71.5 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Beryllium | 0.29 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Calcium | 25100 | 1200 | mg/kg | 2 | 12/06/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Chromium | 12.8 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Cobalt | < 5.8 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Copper | 15.4 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Iron | 9810 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 115 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 6320 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 195 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.13 | 0.029 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB SW846 7471B ¹ | SW846 7471B ⁵ |
| Nickel | 16.7 | 4.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Vanadium | 15.1 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 69.4 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA51535
- (2) Instrument QC Batch: MA51558
- (3) Instrument QC Batch: MA51564
- (4) Prep QC Batch: MP30189
- (5) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: SDUP-02 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-5 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.9

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 03:14 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.3 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: SDUP-02 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-5A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82028.D | 1 | 12/22/21 04:18 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: SDUP-02 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-5A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.10

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 88% | | 40-140% |
| | 13C5-PFPeA | 92% | | 50-150% |
| | 13C5-PFHxA | 95% | | 50-150% |
| | 13C4-PFHpA | 96% | | 50-150% |
| | 13C8-PFOA | 95% | | 50-150% |
| | 13C9-PFNA | 95% | | 50-150% |
| | 13C6-PFDA | 95% | | 50-150% |
| | 13C7-PFUnDA | 93% | | 40-140% |
| | 13C2-PFDoDA | 97% | | 40-140% |
| | 13C2-PFTeDA | 100% | | 30-130% |
| | 13C3-PFBS | 92% | | 50-150% |
| | 13C3-PFHxS | 90% | | 50-150% |
| | 13C8-PFOS | 89% | | 50-150% |
| | 13C8-FOSA | 70% | | 30-130% |
| | d3-MeFOSAA | 92% | | 40-140% |
| | d5-EtFOSAA | 89% | | 40-140% |
| | 13C2-6:2FTS | 89% | | 50-150% |
| | 13C2-8:2FTS | 96% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240359.D | 1 | 12/04/21 15:23 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.0 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 9.7 | 9.3 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.42 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.52 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.71 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.3 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.55 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.48 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.61 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.52 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.93 | 0.39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.93 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.93 | 0.46 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.68 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.93 | 0.46 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.93 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.93 | 0.61 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.93 | 0.78 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.93 | 0.57 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.44 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.93 | 0.42 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.82 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.93 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.37 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.54 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.93 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.45 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.93 | 0.71 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.64 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.93 | 0.84 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.93 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.93 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 101% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204079.D | 1 | 12/06/21 16:27 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 66 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 99 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.9 | ug/kg | |
| 120-12-7 | Anthracene | ND | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 37 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 74 | 5.1 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.2 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 74 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | ND | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 74 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 74 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.9 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.6 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 74 | 8.6 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 37 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.3 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 37 | 8.3 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | ND | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 37% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-28-7.0-9.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-6 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.4 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 35% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 39% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 33% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 37% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 43% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact | 3.22 | 150 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 240 | ug/kg | J |
| | Unknown | 12.97 | 200 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 200 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-28-7.0-9.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-6 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.4 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105422.D | 1 | 12/23/21 00:38 | NAP | 12/04/21 10:20 | OP36957A | E4M4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 41% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 39% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 45% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-28-7.0-9.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-6 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.4 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155532.D | 1 | 12/10/21 07:27 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.1 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 34% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 33% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171973.D | 1 | 12/12/21 21:19 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.3 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^a | ND | 0.69 | 0.57 | ug/kg | |
| 319-84-6 | alpha-BHC ^a | ND | 0.69 | 0.56 | ug/kg | |
| 319-85-7 | beta-BHC ^a | ND | 0.69 | 0.62 | ug/kg | |
| 319-86-8 | delta-BHC ^a | ND | 0.69 | 0.66 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^a | ND | 0.69 | 0.51 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^a | ND | 0.69 | 0.55 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^a | ND | 0.69 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin ^a | ND | 0.69 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | ND | 0.69 | 0.63 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^a | ND | 0.69 | 0.60 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | ND | 0.69 | 0.61 | ug/kg | |
| 72-20-8 | Endrin ^a | ND | 0.69 | 0.53 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate ^a | ND | 0.69 | 0.54 | ug/kg | |
| 7421-93-4 | Endrin aldehyde ^a | ND | 0.69 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I ^a | ND | 0.69 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^a | ND | 0.69 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor ^a | ND | 0.69 | 0.59 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^a | ND | 0.69 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor ^a | ND | 1.4 | 0.55 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.69 | 0.50 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 73% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 64% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 67% | | 10-197% |

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | |
| Lab Sample ID: | JD36084-6 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 89.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7094.D | 1 | 12/08/21 20:04 | TL | 12/06/21 11:35 | OP36962 | GRK183 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.3 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 18 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 34 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 22 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 102% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 106% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 65% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 86% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|---------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 5460 | 57 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Arsenic | 2.8 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Barium | 29.5 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Beryllium | 0.46 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cadmium | < 0.57 | 0.57 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Calcium | 1780 | 570 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Chromium | 12.7 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cobalt | < 5.7 | 5.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Copper | 9.3 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Iron | 11700 | 57 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Lead | 16.1 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Magnesium | 3260 | 570 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Manganese | 301 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Mercury | < 0.035 | 0.035 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 19.8 | 4.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Potassium | 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Silver | < 0.57 | 0.57 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Vanadium | 18.6 | 5.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Zinc | 34.2 | 5.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-28-7.0-9.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-6 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.4 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.11

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.22 | 0.22 | mg/kg | 1 | 12/09/21 03:16 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.4 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-28-7.0-9.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-6A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.4 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82029.D | 1 | 12/22/21 04:36 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.99 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.43 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-28-7.0-9.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-6A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.4 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.12

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 56% | | 40-140% |
| | 13C5-PFPeA | 79% | | 50-150% |
| | 13C5-PFHxA | 82% | | 50-150% |
| | 13C4-PFHpA | 83% | | 50-150% |
| | 13C8-PFOA | 82% | | 50-150% |
| | 13C9-PFNA | 82% | | 50-150% |
| | 13C6-PFDA | 86% | | 50-150% |
| | 13C7-PFUnDA | 85% | | 40-140% |
| | 13C2-PFDoDA | 85% | | 40-140% |
| | 13C2-PFTeDA | 88% | | 30-130% |
| | 13C3-PFBS | 80% | | 50-150% |
| | 13C3-PFHxS | 80% | | 50-150% |
| | 13C8-PFOS | 81% | | 50-150% |
| | 13C8-FOSA | 43% | | 30-130% |
| | d3-MeFOSAA | 67% | | 40-140% |
| | d5-EtFOSAA | 68% | | 40-140% |
| | 13C2-6:2FTS | 75% | | 50-150% |
| | 13C2-8:2FTS | 81% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-7 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240360.D | 1 | 12/04/21 15:43 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 4.7 | 10 | 4.2 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.46 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.57 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.43 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.77 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.5 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.54 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.62 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.46 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.60 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.52 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.66 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.70 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.57 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.55 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.73 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.47 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.66 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.85 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.62 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.48 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.48 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.46 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.46 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | |
| Lab Sample ID: | JD36084-7 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 90.1 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.0 | 0.88 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.47 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.0 | 0.41 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.60 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 0.59 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 0.49 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 0.56 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.77 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.69 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.49 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.90 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.46 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 103% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-7 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204080.D | 1 | 12/06/21 16:53 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | ND | 37 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 43.9 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 33.8 | 37 | 17 | ug/kg | J |
| 205-99-2 | Benzo(b)fluoranthene | 50.4 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 18.2 | 37 | 18 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | ND | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 73 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.1 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.7 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 73 | 5.3 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-7 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 44.0 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 21.4 | 37 | 16 | ug/kg | J |
| 132-64-9 | Dibenzofuran | ND | 73 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 6.0 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.1 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.8 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 73 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | 80.3 | 37 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 40.9 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 37 | 8.3 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 73 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 36.8 | 37 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 81.4 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 36% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-29-4.0-6.0 Lab Sample ID: JD36084-7 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/01/21 Date Received: 12/02/21 Percent Solids: 90.1 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 35% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 42% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 35% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 41% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 44% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact/aldol-condensation | 3.27 | 210 | ug/kg | J |
| | Unknown | 12.97 | 170 | ug/kg | J |
| | Unknown | 15.54 | 150 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 320 | ug/kg | J |

4.13

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-7 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8270E BY SIM SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105425.D | 1 | 12/23/21 01:39 | NAP | 12/04/21 10:20 | OP36957A | E4M4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 46% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 43% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 47% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.13

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-29-4.0-6.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-7 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 90.1 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155533.D | 1 | 12/10/21 07:54 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 45% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 50% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-29-4.0-6.0 | |
| Lab Sample ID: JD36084-7 | Date Sampled: 12/01/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 90.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172332.D | 1 | 12/23/21 08:24 | CP | 12/17/21 14:30 | OP37171 | G1G5947 |
| Run #2 ^b | 1G171974.D | 1 | 12/12/21 21:37 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 10.0 ml |
| Run #2 | 16.0 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.70 | 0.58 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.70 | 0.57 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.70 | 0.64 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.70 | 0.67 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.70 | 0.52 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.70 | 0.57 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.70 | 0.32 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.70 | 0.48 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.70 | 0.64 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.70 | 0.62 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.70 | 0.62 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.70 | 0.55 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.70 | 0.55 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.70 | 0.40 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.70 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.70 | 0.44 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.70 | 0.61 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.70 | 0.49 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.56 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.70 | 0.51 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 82% | 94% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 80% | 96% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 64% | 89% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 73% | 96% | 10-197% |

(a) Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.
 (b) Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | |
| Lab Sample ID: | JD36084-7 | Date Sampled: 12/01/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 90.1 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7095.D | 1 | 12/08/21 20:20 | TL | 12/06/21 11:35 | OP36962 | GRK183 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 35 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 117% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 117% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 73% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 103% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-7 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 5590 | 55 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Arsenic | 3.1 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Barium | 31.1 | 22 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Beryllium | 0.49 | 0.22 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Calcium | 1660 | 550 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Chromium | 11.1 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cobalt | < 5.5 | 5.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Copper | 16.0 | 2.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Iron | 11200 | 55 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Lead | 13.4 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Magnesium | 2430 | 550 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Manganese | 276 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Mercury | 0.072 | 0.036 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 13.4 | 4.4 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Potassium | 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Silver | < 0.55 | 0.55 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Vanadium | 17.0 | 5.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Zinc | 32.3 | 5.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-29-4.0-6.0 | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-7 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 90.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.13

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.33 | 0.33 | mg/kg | 1 | 12/09/21 03:17 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.1 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-29-4.0-6.0 | Date Sampled: | 12/01/21 |
| Lab Sample ID: | JD36084-7A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82030.D | 1 | 12/22/21 04:55 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.04 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.41 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.54 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.54 | 0.27 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.54 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.54 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-29-4.0-6.0 | | Date Sampled: 12/01/21 |
| Lab Sample ID: JD36084-7A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.1 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.14

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 81% | | 40-140% |
| | 13C5-PFPeA | 84% | | 50-150% |
| | 13C5-PFHxA | 86% | | 50-150% |
| | 13C4-PFHpA | 88% | | 50-150% |
| | 13C8-PFOA | 87% | | 50-150% |
| | 13C9-PFNA | 88% | | 50-150% |
| | 13C6-PFDA | 91% | | 50-150% |
| | 13C7-PFUnDA | 88% | | 40-140% |
| | 13C2-PFDoDA | 89% | | 40-140% |
| | 13C2-PFTeDA | 92% | | 30-130% |
| | 13C3-PFBS | 81% | | 50-150% |
| | 13C3-PFHxS | 84% | | 50-150% |
| | 13C8-PFOS | 84% | | 50-150% |
| | 13C8-FOSA | 89% | | 30-130% |
| | d3-MeFOSAA | 85% | | 40-140% |
| | d5-EtFOSAA | 86% | | 40-140% |
| | 13C2-6:2FTS | 80% | | 50-150% |
| | 13C2-8:2FTS | 88% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-8 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240361.D | 1 | 12/04/21 16:03 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.7 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 8.8 | 9.7 | 4.0 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.49 | 0.44 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.9 | 0.55 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.42 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.9 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.9 | 0.74 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.7 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.52 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.60 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.45 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.9 | 0.58 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.51 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.9 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.64 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.68 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.55 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.97 | 0.41 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.97 | 0.53 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.97 | 0.48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.97 | 0.48 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.9 | 0.71 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.97 | 0.48 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.97 | 0.46 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.97 | 0.64 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.97 | 0.82 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.97 | 0.59 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.46 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.46 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.97 | 0.44 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.9 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.9 | 2.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-8 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.9 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.85 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.97 | 0.46 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.9 | 2.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.9 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.39 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.58 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.56 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.97 | 0.51 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.9 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.9 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.47 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.54 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.97 | 0.74 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.9 | 0.67 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.47 | ug/kg | |
| | m,p-Xylene | ND | 0.97 | 0.87 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.97 | 0.45 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.97 | 0.45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 103% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-8 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #2 | F204081.D | 1 | 12/06/21 17:18 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #2 | 30.6 g | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 73 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 65 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 73 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 73 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 73 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 36 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 28.5 | 36 | 22 | ug/kg | J |
| 1912-24-9 | Atrazine | ND | 73 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 75.6 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 65.5 | 36 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 81.0 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 39.8 | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 28.7 | 36 | 17 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 73 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 73 | 8.9 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 73 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 73 | 8.6 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 12.3 | 73 | 5.3 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-8 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 73 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 77.7 | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 73 | 7.8 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 73 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 73 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 73 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 73 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 27.0 | 36 | 16 | ug/kg | J |
| 132-64-9 | Dibenzofuran | ND | 73 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 73 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 73 | 9.0 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 73 | 7.7 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 73 | 6.5 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 73 | 8.5 | ug/kg | |
| 206-44-0 | Fluoranthene | 151 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 73 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 59.0 | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 73 | 7.8 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.6 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | 11.7 | 36 | 10 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 73 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 73 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 139 | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 161 | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 48% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-30-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-8 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.1 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.15

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 46% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 51% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 44% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 52% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 54% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact | 3.22 | 180 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 470 | ug/kg | J |
| | Unknown | 12.97 | 360 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 360 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-30-7.0-9.0 | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-8 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 90.1 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105423.D | 1 | 12/23/21 00:59 | NAP | 12/04/21 10:20 | OP36957A | E4M4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.6 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 57% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 53% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 56% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-30-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-8 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.1 |
| Method: SW846 8151A SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155534.D | 1 | 12/10/21 08:22 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.2 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.7 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.4 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.4 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 41% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 37% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-8 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171975.D | 1 | 12/12/21 21:55 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.1 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^a | ND | 0.69 | 0.57 | ug/kg | |
| 319-84-6 | alpha-BHC ^a | ND | 0.69 | 0.56 | ug/kg | |
| 319-85-7 | beta-BHC ^a | ND | 0.69 | 0.62 | ug/kg | |
| 319-86-8 | delta-BHC ^a | ND | 0.69 | 0.66 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^a | ND | 0.69 | 0.51 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^a | ND | 0.69 | 0.56 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^a | ND | 0.69 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin ^a | ND | 0.69 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | ND | 0.69 | 0.63 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^a | ND | 0.69 | 0.60 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | ND | 0.69 | 0.61 | ug/kg | |
| 72-20-8 | Endrin ^a | ND | 0.69 | 0.54 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate ^a | ND | 0.69 | 0.54 | ug/kg | |
| 7421-93-4 | Endrin aldehyde ^a | ND | 0.69 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I ^a | ND | 0.69 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^a | ND | 0.69 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor ^a | ND | 0.69 | 0.59 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^a | ND | 0.69 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor ^a | ND | 1.4 | 0.55 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.69 | 0.50 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 127% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 107% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 108% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 109% | | 10-197% |

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | |
| Lab Sample ID: | JD36084-8 | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 90.1 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7096.D | 1 | 12/08/21 20:36 | TL | 12/06/21 11:35 | OP36962 | GRK183 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.1 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 34 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 114% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 112% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 67% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 97% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-8 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.1 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 5590 | 56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Arsenic | 3.8 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Barium | 69.2 | 22 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Beryllium | 0.48 | 0.22 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cadmium | < 0.56 | 0.56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Calcium | 4280 | 560 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Chromium | 13.4 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cobalt | < 5.6 | 5.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Copper | 126 | 2.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Iron | 12900 | 56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Lead | 164 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Magnesium | 2720 | 560 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Manganese | 174 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Mercury | 0.26 | 0.037 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 24.3 | 4.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Potassium | 1460 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Silver | < 0.56 | 0.56 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Vanadium | 19.6 | 5.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Zinc | 100 | 5.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-30-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-8 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.15

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|------------------|-------------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.27 | 0.27 | mg/kg | 1 | 12/09/21 03:18 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.1 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-30-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-8A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.1 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82031.D | 1 | 12/22/21 05:13 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.95 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.43 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.57 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.57 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.57 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.57 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.57 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.57 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-30-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-8A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 90.1 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.16

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 87% | | 40-140% |
| | 13C5-PFPeA | 90% | | 50-150% |
| | 13C5-PFHxA | 93% | | 50-150% |
| | 13C4-PFHpA | 96% | | 50-150% |
| | 13C8-PFOA | 94% | | 50-150% |
| | 13C9-PFNA | 95% | | 50-150% |
| | 13C6-PFDA | 98% | | 50-150% |
| | 13C7-PFUnDA | 95% | | 40-140% |
| | 13C2-PFDoDA | 96% | | 40-140% |
| | 13C2-PFTeDA | 98% | | 30-130% |
| | 13C3-PFBS | 90% | | 50-150% |
| | 13C3-PFHxS | 90% | | 50-150% |
| | 13C8-PFOS | 89% | | 50-150% |
| | 13C8-FOSA | 62% | | 30-130% |
| | d3-MeFOSAA | 81% | | 40-140% |
| | d5-EtFOSAA | 83% | | 40-140% |
| | 13C2-6:2FTS | 88% | | 50-150% |
| | 13C2-8:2FTS | 97% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-9 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240362.D | 1 | 12/04/21 16:24 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.6 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 4.3 | 8.4 | 3.5 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.42 | 0.38 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.2 | 0.47 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.7 | 0.36 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.2 | 1.1 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.2 | 0.65 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 8.4 | 2.1 | ug/kg | |
| 75-15-0 | Carbon disulfide | 0.57 | 1.7 | 0.45 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.7 | 0.52 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.7 | 0.39 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.2 | 0.50 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.7 | 0.44 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.2 | 1.7 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.7 | 0.55 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | 0.59 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.7 | 0.47 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.84 | 0.36 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.84 | 0.46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.84 | 0.42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.84 | 0.42 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.2 | 0.61 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.84 | 0.42 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.84 | 0.40 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.84 | 0.55 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.84 | 0.71 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.84 | 0.52 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.7 | 0.40 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.7 | 0.40 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.7 | 0.39 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.84 | 0.38 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.2 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.2 | 1.8 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-9 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.7 | 1.2 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.2 | 1.2 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.7 | 0.74 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.84 | 0.40 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.2 | 1.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.2 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.7 | 0.34 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.7 | 0.51 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.7 | 0.49 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.84 | 0.44 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.2 | 2.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.2 | 2.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.7 | 0.41 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.7 | 0.47 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.84 | 0.64 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.2 | 0.58 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.7 | 0.41 | ug/kg | |
| | m,p-Xylene | ND | 0.84 | 0.76 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.84 | 0.39 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.84 | 0.39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | |
| Lab Sample ID: | JD36084-9 | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8270E SW846 3546 | Percent Solids: 89.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204091.D | 1 | 12/06/21 21:31 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 72 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 31 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 64 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 39 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 72 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 72 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 360 | 97 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 34 | ug/kg | |
| 108-95-2 | Phenol | ND | 72 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 24 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 27 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 17.8 | 36 | 12 | ug/kg | J |
| 208-96-8 | Acenaphthylene | ND | 36 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.8 | ug/kg | |
| 120-12-7 | Anthracene | 51.5 | 36 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 72 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 381 | 36 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 461 | 36 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 568 | 36 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 356 | 36 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 204 | 36 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 72 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 72 | 8.8 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 72 | 5.0 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 9.0 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 72 | 8.6 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 7.5 | 72 | 5.2 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-9 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 72 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 362 | 36 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 72 | 7.7 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 72 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 72 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 72 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 36 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 36 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 72 | 30 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 36 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 104 | 36 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 72 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 72 | 5.9 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 72 | 9.0 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 72 | 7.7 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 72 | 6.4 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 64.1 | 72 | 8.5 | ug/kg | J |
| 206-44-0 | Fluoranthene | 545 | 36 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 36 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 72 | 9.2 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 36 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 360 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 429 | 36 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 72 | 7.7 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 36 | 8.2 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.5 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 9.0 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 36 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 72 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 72 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 136 | 36 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 644 | 36 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 56% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.7 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 54% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 54% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 51% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|------------|-------|---|
| | System artifact | 3.22 | 210 | ug/kg | J |
| | System artifact/aldol-condensation | 3.28 | 850 | ug/kg | J |
| | Unknown | 12.99 | 170 | ug/kg | J |
| | Unknown PAH substance | 16.38 | 150 | ug/kg | J |
| | Unknown PAH substance | 16.71 | 400 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 720 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.7 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105393.D | 1 | 12/22/21 08:07 | CS | 12/04/21 10:20 | OP36957A | E4M4895 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-------------|--------|-----|-----|-------|---|
| 123-91-1 | 1,4-Dioxane | 2.06 | 3.6 | 1.8 | ug/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 10-107% |
| 321-60-8 | 2-Fluorobiphenyl | 65% | | 17-91% |
| 1718-51-0 | Terphenyl-d14 | 74% | | 17-105% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.7 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155538.D | 1 | 12/10/21 10:13 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.4 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.6 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.4 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.4 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 51% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 38% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-9 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172333.D | 1 | 12/23/21 08:42 | CP | 12/17/21 14:30 | OP37171 | G1G5947 |
| Run #2 ^b | 1G171976.D | 1 | 12/12/21 22:13 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.8 g | 10.0 ml |
| Run #2 | 15.6 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.66 | 0.55 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.66 | 0.54 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.66 | 0.60 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.66 | 0.64 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.66 | 0.49 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^c | 14.6 | 0.66 | 0.54 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | 21.2 | 0.66 | 0.30 | ug/kg | |
| 60-57-1 | Dieldrin ^c | 4.1 | 0.66 | 0.46 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.66 | 0.61 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 6.8 | 0.66 | 0.58 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^d | 2.7 | 0.66 | 0.59 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.66 | 0.52 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.66 | 0.52 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.66 | 0.38 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.66 | 0.38 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.66 | 0.41 | ug/kg | |
| 76-44-8 | Heptachlor | 3.2 | 0.66 | 0.57 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^c | 3.0 | 0.66 | 0.47 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.53 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.66 | 0.48 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 83% | 71% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 87% | 60% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 53% | 106% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 152% | 534% ^e | 10-197% |

(a) Re-extracted due to BS outside in house QC limits. Originally prep date was within holding time.

(b) Confirmation run.

(c) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.7 |
| Method: SW846 8081B SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.17

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|----|-----|-------|---|
|---------|----------|--------|----|-----|-------|---|

- (d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- (e) Outside control limits due to matrix interference.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|-------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 89.7 |
| Method: SW846 8082A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7097.D | 1 | 12/08/21 20:53 | TL | 12/06/21 11:35 | OP36962 | GRK183 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 67% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 54% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 44% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 228% ^a | | 10-172% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-9 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 4560 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Arsenic | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Barium | 34.8 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Beryllium | 0.38 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Calcium | 8460 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Chromium | 10.9 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cobalt | < 5.8 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Copper | 15.4 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Iron | 10400 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Lead | 32.2 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Magnesium | 3060 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Manganese | 136 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Mercury | 0.038 | 0.030 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 17.7 | 4.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Vanadium | 18.5 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Zinc | 46.4 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.7 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.17

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.26 | 0.26 | mg/kg | 1 | 12/09/21 03:20 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 89.7 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31-6.0-8.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-9A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82032.D | 1 | 12/22/21 05:32 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.04 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-31-6.0-8.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-9A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 89.7 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

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PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 83% | | 40-140% |
| | 13C5-PFPeA | 86% | | 50-150% |
| | 13C5-PFHxA | 88% | | 50-150% |
| | 13C4-PFHpA | 90% | | 50-150% |
| | 13C8-PFOA | 90% | | 50-150% |
| | 13C9-PFNA | 90% | | 50-150% |
| | 13C6-PFDA | 88% | | 50-150% |
| | 13C7-PFUnDA | 84% | | 40-140% |
| | 13C2-PFDoDA | 89% | | 40-140% |
| | 13C2-PFTeDA | 96% | | 30-130% |
| | 13C3-PFBS | 86% | | 50-150% |
| | 13C3-PFHxS | 86% | | 50-150% |
| | 13C8-PFOS | 84% | | 50-150% |
| | 13C8-FOSA | 91% | | 30-130% |
| | d3-MeFOSAA | 93% | | 40-140% |
| | d5-EtFOSAA | 88% | | 40-140% |
| | 13C2-6:2FTS | 83% | | 50-150% |
| | 13C2-8:2FTS | 88% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240363.D | 1 | 12/04/21 16:44 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.0 | 3.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.45 | 0.41 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.5 | 0.50 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.8 | 0.39 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.5 | 1.2 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.5 | 0.69 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.0 | 2.2 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.8 | 0.48 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.8 | 0.56 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.8 | 0.41 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.5 | 0.53 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.8 | 0.47 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.5 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.8 | 0.59 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.8 | 0.63 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.8 | 0.50 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.90 | 0.38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.90 | 0.49 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.90 | 0.45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.90 | 0.44 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.5 | 0.65 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.90 | 0.45 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.90 | 0.42 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.90 | 0.59 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.90 | 0.76 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.90 | 0.55 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.8 | 0.43 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.8 | 0.43 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.8 | 0.41 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.90 | 0.41 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.5 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.5 | 1.9 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.8 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.5 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.8 | 0.79 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.90 | 0.42 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.5 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.5 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.8 | 0.36 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.8 | 0.54 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.8 | 0.52 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.90 | 0.47 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.5 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.8 | 0.44 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.8 | 0.50 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.90 | 0.69 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.5 | 0.62 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.8 | 0.43 | ug/kg | |
| | m,p-Xylene | ND | 0.90 | 0.81 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.90 | 0.41 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.90 | 0.41 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 105% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 89% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204082.D | 1 | 12/06/21 17:43 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 76 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 68 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 190 | 41 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 76 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 76 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 380 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 36 | ug/kg | |
| 108-95-2 | Phenol | ND | 76 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 23 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 38 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 38 | 19 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 190 | 8.2 | ug/kg | |
| 120-12-7 | Anthracene | ND | 38 | 23 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 76 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 14.9 | 38 | 11 | ug/kg | J |
| 50-32-8 | Benzo(a)pyrene | ND | 38 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 38 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 38 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 38 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 76 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 76 | 9.3 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 76 | 5.2 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.4 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 76 | 9.0 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 14 | ug/kg | |
| 86-74-8 | Carbazole | ND | 76 | 5.5 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 76 | 15 | ug/kg | |
| 218-01-9 | Chrysene | ND | 38 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 76 | 8.1 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 76 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 76 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 76 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 38 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 38 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 76 | 32 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 38 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 38 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 76 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 76 | 6.2 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 76 | 9.5 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 76 | 8.1 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 76 | 6.8 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 76 | 8.9 | ug/kg | |
| 206-44-0 | Fluoranthene | 17.2 | 38 | 17 | ug/kg | J |
| 86-73-7 | Fluorene | ND | 38 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 76 | 9.6 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 38 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 380 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 38 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 76 | 8.1 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 38 | 8.6 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 190 | 9.0 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.5 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 38 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 76 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 76 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 38 | 13 | ug/kg | |
| 129-00-0 | Pyrene | 17.7 | 38 | 12 | ug/kg | J |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 49% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-32-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-10 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 85.4 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

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ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 48% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 55% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 47% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 52% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 60% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|------|------------|-------|---|
| | System artifact | 3.22 | 190 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 280 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | SW846 8270E BY SIM SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105424.D | 1 | 12/23/21 01:19 | NAP | 12/04/21 10:20 | OP36957A | E4M4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | 2.09 | 3.8 | 1.9 | ug/kg | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 64% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-32-7.0-9.0 Lab Sample ID: JD36084-10 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/02/21 Date Received: 12/02/21 Percent Solids: 85.4 |
|---|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155539.D | 1 | 12/10/21 10:41 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.5 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 19 | 8.4 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.8 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.8 | 1.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 30% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 30% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171977.D | 1 | 12/12/21 22:31 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.3 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^a | ND | 0.77 | 0.63 | ug/kg | |
| 319-84-6 | alpha-BHC ^a | ND | 0.77 | 0.62 | ug/kg | |
| 319-85-7 | beta-BHC ^a | ND | 0.77 | 0.69 | ug/kg | |
| 319-86-8 | delta-BHC ^a | ND | 0.77 | 0.73 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^a | ND | 0.77 | 0.56 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^a | ND | 0.77 | 0.62 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^a | ND | 0.77 | 0.35 | ug/kg | |
| 60-57-1 | Dieldrin ^a | ND | 0.77 | 0.53 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | ND | 0.77 | 0.70 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^a | ND | 0.77 | 0.67 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | ND | 0.77 | 0.68 | ug/kg | |
| 72-20-8 | Endrin ^a | ND | 0.77 | 0.59 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate ^a | ND | 0.77 | 0.60 | ug/kg | |
| 7421-93-4 | Endrin aldehyde ^a | ND | 0.77 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I ^a | ND | 0.77 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^a | ND | 0.77 | 0.48 | ug/kg | |
| 76-44-8 | Heptachlor ^a | ND | 0.77 | 0.66 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^a | ND | 0.77 | 0.54 | ug/kg | |
| 72-43-5 | Methoxychlor ^a | ND | 1.5 | 0.61 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.77 | 0.55 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 120% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 119% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 99% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 109% | | 10-197% |

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | |
| Lab Sample ID: | JD36084-10 | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 85.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7098.D | 1 | 12/08/21 21:09 | TL | 12/06/21 11:35 | OP36962 | GRK183 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.3 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 24 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 16 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 142% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 141% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 77% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 156% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.19

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|---------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 5170 | 62 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Antimony | < 2.5 | 2.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Arsenic | 2.7 | 2.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Barium | 48.3 | 25 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Beryllium | 0.46 | 0.25 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cadmium | < 0.62 | 0.62 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Calcium | 1910 | 620 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Chromium | 11.9 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cobalt | < 6.2 | 6.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Copper | 12.2 | 3.1 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Iron | 11500 | 62 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Lead | 19.4 | 2.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Magnesium | 2430 | 620 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Manganese | 274 | 1.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Mercury | < 0.030 | 0.030 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 13.9 | 4.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Potassium | 1270 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Selenium | < 2.5 | 2.5 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Silver | < 0.62 | 0.62 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Sodium | 2510 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Vanadium | 19.2 | 6.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Zinc | 36.2 | 6.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-32-7.0-9.0 | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-10 | Date Received: 12/02/21 |
| Matrix: SO - Soil | Percent Solids: 85.4 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.19

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.27 | 0.27 | mg/kg | 1 | 12/09/21 03:24 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 85.4 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32-7.0-9.0 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-10A | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 85.4 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82033.D | 1 | 12/22/21 05:50 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.99 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.45 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.59 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.59 | 0.29 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.59 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.59 | 0.29 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.59 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.59 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-32-7.0-9.0 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-10A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 85.4 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.20

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 86% | | 40-140% |
| | 13C5-PFPeA | 90% | | 50-150% |
| | 13C5-PFHxA | 92% | | 50-150% |
| | 13C4-PFHpA | 93% | | 50-150% |
| | 13C8-PFOA | 94% | | 50-150% |
| | 13C9-PFNA | 94% | | 50-150% |
| | 13C6-PFDA | 95% | | 50-150% |
| | 13C7-PFUnDA | 94% | | 40-140% |
| | 13C2-PFDoDA | 94% | | 40-140% |
| | 13C2-PFTeDA | 96% | | 30-130% |
| | 13C3-PFBS | 87% | | 50-150% |
| | 13C3-PFHxS | 88% | | 50-150% |
| | 13C8-PFOS | 89% | | 50-150% |
| | 13C8-FOSA | 70% | | 30-130% |
| | d3-MeFOSAA | 86% | | 40-140% |
| | d5-EtFOSAA | 83% | | 40-140% |
| | 13C2-6:2FTS | 83% | | 50-150% |
| | 13C2-8:2FTS | 85% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-11 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 91.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240364.D | 1 | 12/04/21 17:04 | PS | 12/03/21 08:00 | n/a | VI9771 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 17.0 | 9.9 | 4.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.50 | 0.45 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.56 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.43 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.76 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.9 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.53 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.61 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.46 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.59 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.52 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.65 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.69 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.56 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.99 | 0.42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.99 | 0.54 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.99 | 0.49 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.99 | 0.49 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.72 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.99 | 0.49 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.99 | 0.47 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.99 | 0.65 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.99 | 0.83 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.99 | 0.61 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.47 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.47 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.45 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.99 | 0.45 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | |
| Lab Sample ID: | JD36084-11 | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 91.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.0 | 0.87 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.99 | 0.47 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.0 | 0.40 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.60 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 0.58 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.99 | 0.52 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 0.48 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 0.55 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.99 | 0.76 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 0.68 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.48 | ug/kg | |
| | m,p-Xylene | ND | 0.99 | 0.89 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.99 | 0.46 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.99 | 0.46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 103% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-11 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 91.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | F204085.D | 1 | 12/06/21 18:59 | KLS | 12/04/21 10:20 | OP36957 | EF8943 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 71 | 17 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 22 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 30 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 63 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 180 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 180 | 38 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 71 | 23 | ug/kg | |
| | 3&4-Methylphenol | ND | 71 | 29 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 180 | 23 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 350 | 94 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 33 | ug/kg | |
| 108-95-2 | Phenol | ND | 71 | 18 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 180 | 23 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 26 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | 27.8 | 35 | 12 | ug/kg | J |
| 208-96-8 | Acenaphthylene | 90.9 | 35 | 18 | ug/kg | |
| 98-86-2 | Acetophenone | ND | 180 | 7.6 | ug/kg | |
| 120-12-7 | Anthracene | 146 | 35 | 22 | ug/kg | |
| 1912-24-9 | Atrazine | ND | 71 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 746 | 35 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 965 | 35 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 985 | 35 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 593 | 35 | 18 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 361 | 35 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 71 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 71 | 8.6 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 5.5 | 71 | 4.8 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 180 | 8.8 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 71 | 8.4 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 15.7 | 71 | 5.1 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-11 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 91.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 71 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 702 | 35 | 11 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 71 | 7.6 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 71 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 71 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 71 | 11 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 35 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 35 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 71 | 29 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 35 | 23 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 157 | 35 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | 34.7 | 71 | 14 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 71 | 5.8 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 71 | 8.8 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 71 | 7.5 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 71 | 6.3 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 71 | 8.3 | ug/kg | |
| 206-44-0 | Fluoranthene | 1200 | 35 | 16 | ug/kg | |
| 86-73-7 | Fluorene | 35.8 | 35 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 71 | 8.9 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 35 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 350 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 735 | 35 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 71 | 7.6 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 8.7 | 35 | 8.0 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline | ND | 180 | 8.3 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 8.8 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.2 | ug/kg | |
| 91-20-3 | Naphthalene | 23.7 | 35 | 10 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 71 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 71 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 282 | 35 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 1350 | 35 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 9.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 41% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-33-4.5-6.5 | |
| Lab Sample ID: JD36084-11 | Date Sampled: 12/02/21 |
| Matrix: SO - Soil | Date Received: 12/02/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 91.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 40% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 49% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 38% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 45% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 50% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 3.22 | 160 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 200 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 9.67 | 250 | ug/kg | JN |
| | Naphthalene phenyl | 10.05 | 150 | ug/kg | J |
| | Phenanthrene dimethyl | 10.52 | 150 | ug/kg | J |
| | Pyrene methyl | 11.97 | 160 | ug/kg | J |
| | Pyrene methyl | 12.11 | 160 | ug/kg | J |
| | Unknown | 12.98 | 190 | ug/kg | J |
| | Unknown | 13.39 | 150 | ug/kg | J |
| | Unknown | 14.08 | 150 | ug/kg | J |
| | Chrysene methyl | 14.80 | 180 | ug/kg | J |
| | Unknown PAH substance | 16.36 | 270 | ug/kg | J |
| | Unknown PAH substance | 16.70 | 710 | ug/kg | J |
| | Unknown | 17.05 | 150 | ug/kg | J |
| | Unknown PAH substance | 18.68 | 260 | ug/kg | J |
| | Unknown PAH substance | 19.08 | 230 | ug/kg | J |
| | Unknown PAH substance | 19.49 | 210 | ug/kg | J |
| | Unknown | 19.94 | 240 | ug/kg | J |
| | Unknown | 20.25 | 410 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 4020 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | |
| Lab Sample ID: | JD36084-11 | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 91.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105426.D | 1 | 12/23/21 02:00 | NAP | 12/04/21 10:20 | OP36957A | E4M4896 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.5 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 49% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 45% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 52% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.21

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-33-4.5-6.5 Lab Sample ID: JD36084-11 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/02/21 Date Received: 12/02/21 Percent Solids: 91.5 |
|---|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155540.D | 1 | 12/10/21 11:09 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.2 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.0 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.6 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.6 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 51% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 38% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-33-4.5-6.5 Lab Sample ID: JD36084-11 Matrix: SO - Soil Method: SW846 8081B SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/02/21 Date Received: 12/02/21 Percent Solids: 91.5 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G171978.D | 1 | 12/12/21 22:49 | TL | 12/06/21 11:35 | OP36961 | G1G5933 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^a | ND | 0.72 | 0.60 | ug/kg | |
| 319-84-6 | alpha-BHC ^a | ND | 0.72 | 0.59 | ug/kg | |
| 319-85-7 | beta-BHC ^a | ND | 0.72 | 0.65 | ug/kg | |
| 319-86-8 | delta-BHC ^a | ND | 0.72 | 0.69 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^a | ND | 0.72 | 0.53 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^a | ND | 0.72 | 0.58 | ug/kg | |
| 5103-74-2 | gamma-Chlordane ^a | ND | 0.72 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin ^a | ND | 0.72 | 0.50 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | ND | 0.72 | 0.66 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^a | ND | 0.72 | 0.63 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | ND | 0.72 | 0.64 | ug/kg | |
| 72-20-8 | Endrin ^a | ND | 0.72 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate ^a | ND | 0.72 | 0.57 | ug/kg | |
| 7421-93-4 | Endrin aldehyde ^a | ND | 0.72 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I ^a | ND | 0.72 | 0.42 | ug/kg | |
| 33213-65-9 | Endosulfan-II ^a | ND | 0.72 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor ^a | ND | 0.72 | 0.62 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide ^a | ND | 0.72 | 0.51 | ug/kg | |
| 72-43-5 | Methoxychlor ^a | ND | 1.4 | 0.58 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.72 | 0.52 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 67% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 62% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 175% | | 10-197% |

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | |
| Lab Sample ID: | JD36084-11 | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 91.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7099.D | 1 | 12/08/21 21:26 | TL | 12/06/21 11:35 | OP36962 | GRK183 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 77% | | 24-152% |
| 877-09-8 | Tetrachloro-m-xylene | 73% | | 24-152% |
| 2051-24-3 | Decachlorobiphenyl | 48% | | 10-172% |
| 2051-24-3 | Decachlorobiphenyl | 118% | | 10-172% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.21

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | Date Sampled: | 12/02/21 |
| Lab Sample ID: | JD36084-11 | Date Received: | 12/02/21 |
| Matrix: | SO - Soil | Percent Solids: | 91.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method | |
|-----------|--------|-------|-------|----|----------|-------------|--------|--------------------------|--------------------------|
| Aluminum | 5120 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Antimony | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Arsenic | 3.2 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Barium | 35.8 | 23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Beryllium | 0.37 | 0.23 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cadmium | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Calcium | 1760 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Chromium | 12.0 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Cobalt | < 5.8 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Copper | 22.7 | 2.9 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Iron | 10000 | 58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Lead | 45.0 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Magnesium | 2180 | 580 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Manganese | 167 | 1.7 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Mercury | 0.10 | 0.034 | mg/kg | 1 | 12/06/21 | 12/06/21 | SB | SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 20.8 | 4.6 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Potassium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Selenium | < 2.3 | 2.3 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Silver | < 0.58 | 0.58 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Thallium | < 1.2 | 1.2 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Vanadium | 16.2 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |
| Zinc | 47.9 | 5.8 | mg/kg | 1 | 12/06/21 | 12/07/21 | ND | SW846 6010D ² | SW846 3050B ³ |

(1) Instrument QC Batch: MA51535

(2) Instrument QC Batch: MA51558

(3) Prep QC Batch: MP30189

(4) Prep QC Batch: MP30190

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-33-4.5-6.5 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-11 | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 91.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.21

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.25 | 0.25 | mg/kg | 1 | 12/09/21 03:25 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 91.5 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-33-4.5-6.5 | |
| Lab Sample ID: | JD36084-11A | Date Sampled: 12/02/21 |
| Matrix: | SO - Soil | Date Received: 12/02/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 91.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82036.D | 1 | 12/22/21 06:46 | AFL | 12/13/21 09:00 | F:OP88800 | F:S2Q1159 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.96 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.22

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-33-4.5-6.5 | | Date Sampled: 12/02/21 |
| Lab Sample ID: JD36084-11A | | Date Received: 12/02/21 |
| Matrix: SO - Soil | | Percent Solids: 91.5 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.22

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 83% | | 40-140% |
| | 13C5-PFPeA | 86% | | 50-150% |
| | 13C5-PFHxA | 89% | | 50-150% |
| | 13C4-PFHpA | 90% | | 50-150% |
| | 13C8-PFOA | 89% | | 50-150% |
| | 13C9-PFNA | 86% | | 50-150% |
| | 13C6-PFDA | 83% | | 50-150% |
| | 13C7-PFUnDA | 79% | | 40-140% |
| | 13C2-PFDoDA | 88% | | 40-140% |
| | 13C2-PFTeDA | 96% | | 30-130% |
| | 13C3-PFBS | 87% | | 50-150% |
| | 13C3-PFHxS | 86% | | 50-150% |
| | 13C8-PFOS | 85% | | 50-150% |
| | 13C8-FOSA | 51% | | 30-130% |
| | d3-MeFOSAA | 79% | | 40-140% |
| | d5-EtFOSAA | 78% | | 40-140% |
| | 13C2-6:2FTS | 83% | | 50-150% |
| | 13C2-8:2FTS | 80% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



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Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD36084

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/2/2021 5:18:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.5);

Cooler Temps (Corrected) °C: Cooler 1: (1.1);

| <u>Cooler Security</u> | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| <u>Quality Control Preservation</u> | <u>Y or N</u> | | <u>N/A</u> |
|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y or N</u> | |
|---|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y or N</u> | |
|-------------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

| <u>Sample Integrity - Instructions</u> | <u>Y or N</u> | | <u>N/A</u> |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) _____ |
|--------------------|-----------------|-----------------|------------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD36084: Chain of Custody

Page 2 of 3

5.1

Job Change Order: JD36084

Requested Date: 12/13/2021 **Received Date:** 12/2/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD36084-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD36084: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.





CHAIN OF CUSTODY

SGS North America Inc. - Dayton
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3490
 www.sgs.com/ehsusua

| | | | | | | | |
|---|--------------------------------|---|---------|--|------------|--|--------------|
| Client / Reporting Information | | Project Information | | Requested Analysis | | Matrix Codes | |
| Company Name: 2nd Avenue and 33-39th Street, Brooklyn, NY | | Project Name: 2nd Avenue and 33-39th Street, Brooklyn, NY | | Requested Analysis | | Matrix Codes | |
| Street Address | | Street | | Requested Analysis | | Matrix Codes | |
| City State Zip | | City State | | Requested Analysis | | Matrix Codes | |
| Project Contact E-mail: jdson.schiller@sgs.com | | Project # | | Requested Analysis | | Matrix Codes | |
| Phone # | | Client Purchase Order # | | Requested Analysis | | Matrix Codes | |
| Sampler(s) Name(s) AV | | Project Manager | | Requested Analysis | | Matrix Codes | |
| Field ID / Point of Collection | | Collection | | Requested Analysis | | Matrix Codes | |
| SGS Sample # | Field ID / Point of Collection | METHOD | Date | Time | Sampled by | Matrix | # of bottles |
| 1A | TT-SB-24-6.5-8.5 | | 12/1/21 | 8:51:00 AM | AV | SO | |
| 2A | TT-SB-25-7.0-9.0 | | 12/1/21 | 9:52:00 AM | AV | SO | |
| 3A | TT-SB-26-6.0-8.0 | | 12/1/21 | 10:38:00 AM | AV | SO | |
| 4A | TT-SB-27-5.0-7.0 | | 12/1/21 | 11:47:00 AM | AV | SO | |
| 5A | SDUP-02 | | 12/1/21 | 12:00:00 PM | AV | SO | |
| 6A | TT-SB-28-7.0-9.0 | | 12/1/21 | 1:47:00 PM | AV | SO | |
| 7A | TT-SB-29-4.0-6.0 | | 12/1/21 | 2:56:00 PM | AV | SO | |
| 8A | TT-SB-30-7.0-9.0 | | 12/2/21 | 8:53:00 AM | AV | SO | |
| 9A | TT-SB-31-6.0-8.0 | | 12/2/21 | 10:50:00 AM | AV | SO | |
| 10A | TT-SB-32-7.0-9.0 | | 12/2/21 | 11:47:00 AM | AV | SO | |
| 11A | TT-SB-33-4.5-6.5 | | 12/2/21 | 1:38:00 PM | AV | SO | |
| Turnaround Time (Business days) | | Data Deliverable Information | | Comments / Special Instructions | | LAB USE ONLY | |
| <input type="checkbox"/> Standard 10 Business Days <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> Other 1/14/1990 <small>Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT</small> | | Approved By (SGS PM): / Date: <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other: NYASPB <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Partial Raw data</small> | | INITIAL ASSESSMENT LABEL VERIFICATION | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank | |
| 1 Relinquished by: [Signature] Date / Time: 12/3/21 | | 2 Received by: [Signature] Date / Time: 12/3/21 | | 3 Relinquished by: [Signature] Date / Time: 12/3/21 | | 4 Received by: [Signature] Date / Time: 12/3/21 | |
| 5 Relinquished by: [Signature] Date / Time: 12/3/21 | | 6 Received by: [Signature] Date / Time: 12/3/21 | | 7 Relinquished by: [Signature] Date / Time: 12/3/21 | | 8 Received by: [Signature] Date / Time: 12/3/21 | |

5.2

2.4 [Signature]



SGS Sample Receipt Summary

Job Number: JD36084

Client: SGS NJ

Project: 2ND AVENUE AND 33-39TH STREET

Date / Time Received: 12/6/2021 9:30:00 AM

Delivery Method: FEDEX

Airbill #'s: 527206368410

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

Cooler Information

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler
 - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

Sample Information

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001 Rev. Date 05/24/17 Technician: DEVANO Date: 12/6/2021 9:30:00 AM Reviewer: _____ Date: _____

JD36084: Chain of Custody

Page 2 of 2



5.2



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Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD36115

Sampling Date: 12/03/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 72



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499

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Sample Summary

Tetra Tech

Job No: JD36115

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | |
|------------|----------|----------|----------|----|------|------------------|
| JD36115-1 | 12/03/21 | 08:15 AV | 12/03/21 | SO | Soil | TT-SB-34-4.0-6.0 |
| JD36115-1A | 12/03/21 | 08:15 AV | 12/03/21 | SO | Soil | TT-SB-34-4.0-6.0 |
| JD36115-2 | 12/03/21 | 09:47 AV | 12/03/21 | SO | Soil | TT-SB-35-3.0-5.0 |
| JD36115-2A | 12/03/21 | 09:47 AV | 12/03/21 | SO | Soil | TT-SB-35-3.0-5.0 |
| JD36115-3 | 12/03/21 | 11:08 AV | 12/03/21 | SO | Soil | TT-SB-36-6.0-8.0 |
| JD36115-3A | 12/03/21 | 11:08 AV | 12/03/21 | SO | Soil | TT-SB-36-6.0-8.0 |
| JD36115-4 | 12/03/21 | 12:18 AV | 12/03/21 | SO | Soil | TT-SB-37-7.0-9.0 |
| JD36115-4A | 12/03/21 | 12:18 AV | 12/03/21 | SO | Soil | TT-SB-37-7.0-9.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD36115

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/29/2021 3:29:54 P

On 12/03/2021, 8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36115 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: VI9773

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD36176-2MS, JD36176-3DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- VI9773-BS for 1,2-Dichlorobenzene: Outside of in house control limits, but within reasonable method recovery limits.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88849

- The data for EPA 537M BY ID meets quality control requirements.
- JD36115-3A: Analysis performed at SGS Orlando, FL.
- JD36115-2A: Analysis performed at SGS Orlando, FL.
- JD36115-4A: Analysis performed at SGS Orlando, FL.
- JD36115-1A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36963

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36063-1MS, JD36063-1MSD were used as the QC samples indicated.
- Sample(s) JD36115-1, JD36115-3, JD36115-4 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- Matrix Spike Recovery(s) for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Fluoranthene, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene, Pyrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene, Pyrene are outside control limits. Outside control limits due to matrix interference.
- JD36115-2: Dilution required due to viscosity of the extract matrix.
- JD36115-2 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-2 for Atrazine: Associated CCV outside of control limits high, sample was ND. Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36115-4 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.

Wednesday, December 29, 2021

Page 2 of 5

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP36963

- JD36115-4 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36115-3 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD36115-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP36963A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP36973

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36144-5MS, JD36144-5MSD, OP36973-MSMSD were used as the QC samples indicated.
- JD36115-2: Confirmation run.
- OP36973-BS1 for 4,4'-DDT: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD36115-1 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36115-2 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- OP36973-BSD for 4,4'-DDT: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD36115-1 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36115-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD36115-2 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36115-2 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP36974

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36144-10MS, JD36144-10MSD, OP36974-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP36974-BS1 for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP36974-BSD for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD36115-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP36933

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36022-1MS, JD36022-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP36933-BSD for 2,4-D are outside control limits.
- Matrix Spike Recovery(s) for 2,4,5-T, 2,4,5-TP (Silvex) are outside control limits.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-TP (Silvex) are outside control limits.
- OP36933-BS1/BSD for 2,4,5-TP (Silvex): Outside of in house control limits.
- RPD of OP36933-BSD for 2,4,5-TP (Silvex): Analytical precision exceeds in-house control limits.
- RPD of OP36933-BSD for 2,4-D: Analytical precision exceeds in-house control limits.
- OP36933-BSD for 2,4-DCAA: Outside of in house control limits.
- OP36933-BS1 for 2,4-DCAA: Outside of in house control limits.
- OP36933-BS1/BSD for 2,4,5-T: Outside of in house control limits.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30201

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36097-2MS, JD36097-2MSD, JD36097-2PS, JD36097-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Cadmium, Selenium, Silver, Sodium, Thallium are outside control limits for sample MP30201-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD36115-2 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Cobalt: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Chromium: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Barium: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD36115-2 for Selenium: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30212

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36039-1MS, JD36039-1MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24483

- Sample(s) JD36106-4DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37440

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD35487-3DUP, JD36115-1MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP37440-D1. RPD acceptable due to low duplicate and sample concentrations.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD36115

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/29/2021 9:47:29

On 12/03/2021, 4 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36115 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88849

Sample(s) JD36176-13AMS, JD36176-13AMSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD36115
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/03/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD36115-1 | TT-SB-34-4.0-6.0 | | | | | |
| Acenaphthene | | 72.5 | 39 | 14 | ug/kg | SW846 8270E |
| Acenaphthylene | | 43.2 | 39 | 20 | ug/kg | SW846 8270E |
| Anthracene | | 294 | 39 | 24 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 1020 | 39 | 11 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 870 | 39 | 18 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 994 | 39 | 17 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 504 | 39 | 20 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 406 | 39 | 18 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 12.3 J | 79 | 5.4 | ug/kg | SW846 8270E |
| Carbazole | | 71.5 J | 79 | 5.7 | ug/kg | SW846 8270E |
| Chrysene | | 1140 | 39 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 145 | 39 | 17 | ug/kg | SW846 8270E |
| Dibenzofuran | | 68.0 J | 79 | 16 | ug/kg | SW846 8270E |
| Di-n-butyl phthalate | | 21.2 JB | 79 | 6.4 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 57.6 J | 79 | 9.2 | ug/kg | SW846 8270E |
| Fluoranthene | | 1760 | 39 | 18 | ug/kg | SW846 8270E |
| Fluorene | | 56.1 | 39 | 18 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 579 | 39 | 18 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 34.1 J | 39 | 8.9 | ug/kg | SW846 8270E |
| Naphthalene | | 72.9 | 39 | 11 | ug/kg | SW846 8270E |
| Phenanthrene | | 1180 | 39 | 13 | ug/kg | SW846 8270E |
| Pyrene | | 2050 | 39 | 13 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 3290 J | | | ug/kg | |
| 4,4'-DDD ^a | | 2.3 | 0.77 | 0.70 | ug/kg | SW846 8081B |
| 4,4'-DDT ^a | | 6.3 | 0.77 | 0.68 | ug/kg | SW846 8081B |
| Aluminum | | 6160 | 63 | | mg/kg | SW846 6010D |
| Arsenic | | 4.2 | 2.5 | | mg/kg | SW846 6010D |
| Barium | | 31.8 | 25 | | mg/kg | SW846 6010D |
| Beryllium | | 0.39 | 0.25 | | mg/kg | SW846 6010D |
| Calcium | | 16500 | 630 | | mg/kg | SW846 6010D |
| Chromium | | 15.1 | 1.3 | | mg/kg | SW846 6010D |
| Copper | | 17.6 | 3.2 | | mg/kg | SW846 6010D |
| Iron | | 14800 | 63 | | mg/kg | SW846 6010D |
| Lead | | 180 | 2.5 | | mg/kg | SW846 6010D |
| Magnesium | | 3180 | 630 | | mg/kg | SW846 6010D |
| Manganese | | 223 | 1.9 | | mg/kg | SW846 6010D |
| Mercury | | 0.22 | 0.033 | | mg/kg | SW846 7471B |
| Nickel | | 21.7 | 5.1 | | mg/kg | SW846 6010D |
| Vanadium | | 23.0 | 6.3 | | mg/kg | SW846 6010D |
| Zinc | | 46.3 | 6.3 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36115
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/03/21

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|--------------------|----|-----|-------|--------|
|---------------|------------------|--------------------|----|-----|-------|--------|

JD36115-1A TT-SB-34-4.0-6.0

No hits reported in this sample.

JD36115-2 TT-SB-35-3.0-5.0

| | | | | | |
|---|--------|-------|------|-------|-------------|
| Acenaphthene ^b | 83.0 | 70 | 24 | ug/kg | SW846 8270E |
| Acenaphthylene ^b | 73.3 | 70 | 35 | ug/kg | SW846 8270E |
| Anthracene ^b | 274 | 70 | 43 | ug/kg | SW846 8270E |
| Benzo(a)anthracene ^b | 852 | 70 | 20 | ug/kg | SW846 8270E |
| Benzo(a)pyrene ^b | 762 | 70 | 32 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene ^b | 986 | 70 | 31 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene ^b | 474 | 70 | 35 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene ^b | 403 | 70 | 33 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl ^b | 10.5 J | 140 | 9.6 | ug/kg | SW846 8270E |
| Carbazole ^b | 93.8 J | 140 | 10 | ug/kg | SW846 8270E |
| Chrysene ^b | 862 | 70 | 22 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene ^b | 161 | 70 | 31 | ug/kg | SW846 8270E |
| Dibenzofuran ^b | 55.2 J | 140 | 28 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate ^b | 230 | 140 | 16 | ug/kg | SW846 8270E |
| Fluoranthene ^b | 1760 | 70 | 31 | ug/kg | SW846 8270E |
| Fluorene ^b | 84.3 | 70 | 32 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene ^b | 559 | 70 | 33 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene ^b | 28.8 J | 70 | 16 | ug/kg | SW846 8270E |
| Naphthalene ^b | 32.0 J | 70 | 20 | ug/kg | SW846 8270E |
| Phenanthrene ^b | 1210 | 70 | 23 | ug/kg | SW846 8270E |
| Pyrene ^b | 1630 | 70 | 22 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 1940 J | | | ug/kg | |
| alpha-Chlordane ^a | 4.0 | 0.70 | 0.57 | ug/kg | SW846 8081B |
| gamma-Chlordane | 3.9 | 0.70 | 0.32 | ug/kg | SW846 8081B |
| Dieldrin ^a | 1.7 | 0.70 | 0.48 | ug/kg | SW846 8081B |
| 4,4'-DDD | 3.5 | 0.70 | 0.64 | ug/kg | SW846 8081B |
| 4,4'-DDE ^a | 11.7 | 0.70 | 0.62 | ug/kg | SW846 8081B |
| 4,4'-DDT | 22.1 | 0.70 | 0.62 | ug/kg | SW846 8081B |
| Endrin ketone | 8.9 | 0.70 | 0.51 | ug/kg | SW846 8081B |
| Aluminum | 4250 | 51 | | mg/kg | SW846 6010D |
| Calcium | 77500 | 2600 | | mg/kg | SW846 6010D |
| Chromium ^c | 7.9 | 5.1 | | mg/kg | SW846 6010D |
| Copper ^c | 19.4 | 13 | | mg/kg | SW846 6010D |
| Iron | 7910 | 51 | | mg/kg | SW846 6010D |
| Lead | 79.1 | 2.1 | | mg/kg | SW846 6010D |
| Magnesium | 6380 | 510 | | mg/kg | SW846 6010D |
| Manganese | 301 | 1.5 | | mg/kg | SW846 6010D |
| Mercury | 0.18 | 0.029 | | mg/kg | SW846 7471B |
| Vanadium | 21.0 | 5.1 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36115
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/03/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | | |
|------|--|------|-----|--|-------|-------------|
| Zinc | | 70.2 | 5.1 | | mg/kg | SW846 6010D |
|------|--|------|-----|--|-------|-------------|

JD36115-2A TT-SB-35-3.0-5.0

No hits reported in this sample.

JD36115-3 TT-SB-36-6.0-8.0

| | | | | | |
|----------------------------|---------|-------|-----|-------|-------------|
| Benzo(a)anthracene | 36.7 | 35 | 9.9 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 36.4 | 35 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 39.5 | 35 | 15 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | 21.6 J | 35 | 18 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | 17.7 J | 35 | 16 | ug/kg | SW846 8270E |
| Chrysene | 34.2 J | 35 | 11 | ug/kg | SW846 8270E |
| Di-n-butyl phthalate | 21.1 JB | 70 | 5.7 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | 50.9 J | 70 | 8.2 | ug/kg | SW846 8270E |
| Fluoranthene | 57.2 | 35 | 16 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 23.8 J | 35 | 16 | ug/kg | SW846 8270E |
| Phenanthrene | 16.2 J | 35 | 12 | ug/kg | SW846 8270E |
| Pyrene | 61.6 | 35 | 11 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | 180 J | | | ug/kg | |
| Aluminum | 2760 | 55 | | mg/kg | SW846 6010D |
| Arsenic | 3.2 | 2.2 | | mg/kg | SW846 6010D |
| Calcium | 626 | 550 | | mg/kg | SW846 6010D |
| Chromium | 6.8 | 1.1 | | mg/kg | SW846 6010D |
| Copper | 3.8 | 2.7 | | mg/kg | SW846 6010D |
| Iron | 8390 | 55 | | mg/kg | SW846 6010D |
| Lead | 8.7 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | 1870 | 550 | | mg/kg | SW846 6010D |
| Manganese | 97.0 | 1.6 | | mg/kg | SW846 6010D |
| Mercury | 0.075 | 0.030 | | mg/kg | SW846 7471B |
| Nickel | 14.3 | 4.4 | | mg/kg | SW846 6010D |
| Vanadium | 9.3 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | 18.3 | 5.5 | | mg/kg | SW846 6010D |

JD36115-3A TT-SB-36-6.0-8.0

No hits reported in this sample.

JD36115-4 TT-SB-37-7.0-9.0

| | | | | | |
|----------------------|-------|-----|-----|-------|-------------|
| Methylene chloride | 3.2 J | 4.9 | 2.5 | ug/kg | SW846 8260D |
| Benzo(a)anthracene | 37.5 | 34 | 9.8 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | 35.2 | 34 | 16 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | 39.3 | 34 | 15 | ug/kg | SW846 8270E |

Summary of Hits

Job Number: JD36115
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/03/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|-------|-----|-------|-------------|
| | | 21.9 J | 34 | 17 | ug/kg | SW846 8270E |
| | | 29.9 J | 34 | 11 | ug/kg | SW846 8270E |
| | | 42.5 JB | 69 | 5.6 | ug/kg | SW846 8270E |
| | | 39.8 J | 69 | 8.1 | ug/kg | SW846 8270E |
| | | 53.4 | 34 | 15 | ug/kg | SW846 8270E |
| | | 23.6 J | 34 | 16 | ug/kg | SW846 8270E |
| | | 24.8 J | 34 | 12 | ug/kg | SW846 8270E |
| | | 54.8 | 34 | 11 | ug/kg | SW846 8270E |
| | | 220 J | | | ug/kg | |
| | | 2410 | 54 | | mg/kg | SW846 6010D |
| | | 4160 | 540 | | mg/kg | SW846 6010D |
| | | 7.4 | 1.1 | | mg/kg | SW846 6010D |
| | | 5.9 | 2.7 | | mg/kg | SW846 6010D |
| | | 6040 | 54 | | mg/kg | SW846 6010D |
| | | 11.3 | 2.2 | | mg/kg | SW846 6010D |
| | | 1720 | 540 | | mg/kg | SW846 6010D |
| | | 77.2 | 1.6 | | mg/kg | SW846 6010D |
| | | 0.056 | 0.028 | | mg/kg | SW846 7471B |
| | | 18.9 | 4.3 | | mg/kg | SW846 6010D |
| | | 9.5 | 5.4 | | mg/kg | SW846 6010D |
| | | 20.3 | 5.4 | | mg/kg | SW846 6010D |

JD36115-4A TT-SB-37-7.0-9.0

No hits reported in this sample.

- (a) More than 40 % RPD for detected concentrations between the two GC columns.
- (b) Dilution required due to viscosity of the extract matrix.
- (c) Elevated detection limit due to dilution required for high interfering element.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-34-4.0-6.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-1 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 81.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240424.D | 1 | 12/07/21 13:17 | PS | 12/03/21 12:21 | n/a | VI9773 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 6.5 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.4 | 3.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.47 | 0.43 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.7 | 0.53 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.40 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.7 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.7 | 0.72 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.4 | 2.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.58 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.43 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.7 | 0.56 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.49 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.7 | 1.8 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.62 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.65 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.53 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.94 | 0.40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.94 | 0.51 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.94 | 0.47 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.7 | 0.69 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.94 | 0.47 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.94 | 0.44 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.94 | 0.62 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.94 | 0.79 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.94 | 0.58 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.45 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.45 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.43 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.94 | 0.43 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.7 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.7 | 2.0 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-34-4.0-6.0 | |
| Lab Sample ID: | JD36115-1 | Date Sampled: 12/03/21 |
| Matrix: | SO - Soil | Date Received: 12/03/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 81.6 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|------|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.9 | 1.3 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 4.7 | 1.3 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 1.9 | 0.82 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.94 | 0.44 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 4.7 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 4.7 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 1.9 | 0.38 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.9 | 0.56 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 1.9 | 0.55 | ug/kg | |
| 108-88-3 | Toluene | ND | 0.94 | 0.49 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.7 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.9 | 0.46 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.9 | 0.52 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 0.94 | 0.72 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.7 | 0.64 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 1.9 | 0.45 | ug/kg | |
| | m,p-Xylene | ND | 0.94 | 0.84 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 0.94 | 0.43 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 0.94 | 0.43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 87% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-34-4.0-6.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-1 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 81.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176884.D | 1 | 12/08/21 21:06 | KLS | 12/07/21 10:45 | OP36963 | EM7603 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.2 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 79 | 19 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | 24 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | 34 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | 70 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 200 | 150 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 200 | 42 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 79 | 25 | ug/kg | |
| | 3&4-Methylphenol | ND | 79 | 32 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 200 | 26 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 390 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 160 | 37 | ug/kg | |
| 108-95-2 | Phenol | ND | 79 | 21 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 200 | 26 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | 29 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | 23 | ug/kg | |
| 83-32-9 | Acenaphthene | 72.5 | 39 | 14 | ug/kg | |
| 208-96-8 | Acenaphthylene | 43.2 | 39 | 20 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 200 | 8.4 | ug/kg | |
| 120-12-7 | Anthracene | 294 | 39 | 24 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 79 | 17 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1020 | 39 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 870 | 39 | 18 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 994 | 39 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 504 | 39 | 20 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 406 | 39 | 18 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 79 | 15 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 79 | 9.6 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 12.3 | 79 | 5.4 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 200 | 9.7 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 79 | 9.3 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 200 | 14 | ug/kg | |
| 86-74-8 | Carbazole | 71.5 | 79 | 5.7 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-34-4.0-6.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-1 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 81.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|----|
| 105-60-2 | Caprolactam ^a | ND | 79 | 16 | ug/kg | |
| 218-01-9 | Chrysene | 1140 | 39 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 79 | 8.4 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 79 | 17 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 79 | 14 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 79 | 13 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 39 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 39 | 20 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 79 | 33 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 39 | 26 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 145 | 39 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | 68.0 | 79 | 16 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | 21.2 | 79 | 6.4 | ug/kg | JB |
| 117-84-0 | Di-n-octyl phthalate | ND | 79 | 9.8 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 79 | 8.4 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 79 | 7.0 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 57.6 | 79 | 9.2 | ug/kg | J |
| 206-44-0 | Fluoranthene | 1760 | 39 | 18 | ug/kg | |
| 86-73-7 | Fluorene | 56.1 | 39 | 18 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 79 | 9.9 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 39 | 16 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 390 | 16 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 579 | 39 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 79 | 8.4 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 34.1 | 39 | 8.9 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline ^a | ND | 200 | 9.3 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 200 | 9.8 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 200 | 10 | ug/kg | |
| 91-20-3 | Naphthalene | 72.9 | 39 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 79 | 15 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 79 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 1180 | 39 | 13 | ug/kg | |
| 129-00-0 | Pyrene | 2050 | 39 | 13 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 200 | 10 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 54% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-34-4.0-6.0 Lab Sample ID: JD36115-1 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 81.6 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 55% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 89% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|-------|-------------|--------------|----------|
| | System artifact | 3.21 | 210 | ug/kg | J |
| | system artifact/aldol-condensation | 3.28 | 420 | ug/kg | J |
| | Phenanthrene, methyl- | 11.54 | 260 | ug/kg | J |
| | Phenanthrene, methyl- | 11.59 | 350 | ug/kg | J |
| | unknown | 11.74 | 320 | ug/kg | J |
| | Phenanthrene methyl | 11.79 | 180 | ug/kg | J |
| | Naphthalene, phenyl- | 12.15 | 280 | ug/kg | J |
| | Phenanthrene, dimethyl- | 12.63 | 230 | ug/kg | J |
| | Pyrene methyl | 14.03 | 170 | ug/kg | J |
| | Octadecenamide, (Z)- | 14.93 | 200 | ug/kg | J |
| | unknown | 15.31 | 220 | ug/kg | J |
| | unknown PAH substances | 18.19 | 620 | ug/kg | J |
| | unknown | 18.59 | 190 | ug/kg | J |
| | unknown | 19.31 | 270 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 3290 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-34-4.0-6.0 Lab Sample ID: JD36115-1 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 81.6 |
|---|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105338.D | 1 | 12/21/21 07:25 | CS | 12/07/21 10:45 | OP36963A | E4M4893 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.9 | 2.0 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 66% | | 17-105% | | |

| | |
|--|--|
| ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range | MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound |
|--|--|

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-34-4.0-6.0 | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-1 | Date Received: 12/03/21 |
| Matrix: SO - Soil | Percent Solids: 81.6 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155541.D | 1 | 12/10/21 11:37 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 20 | 8.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.9 | 2.2 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.9 | 2.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 42% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 41% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-34-4.0-6.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-1 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 81.6 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723473.D | 1 | 12/10/21 09:51 | CP | 12/07/21 11:25 | OP36973 | G4G3679 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.77 | 0.63 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.77 | 0.62 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.77 | 0.69 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.77 | 0.74 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.77 | 0.56 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.77 | 0.62 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.77 | 0.35 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.77 | 0.53 | ug/kg | |
| 72-54-8 | 4,4'-DDD ^a | 2.3 | 0.77 | 0.70 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.77 | 0.67 | ug/kg | |
| 50-29-3 | 4,4'-DDT ^a | 6.3 | 0.77 | 0.68 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.77 | 0.60 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.77 | 0.60 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.77 | 0.43 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.77 | 0.44 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.77 | 0.48 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.77 | 0.66 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.77 | 0.54 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.61 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.77 | 0.55 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 19 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 113% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 139% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 118% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 352% ^b | | 10-197% |

(a) More than 40 % RPD for detected concentrations between the two GC columns.

(b) Outside control limits due to matrix interference.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|-------------------------|
| Client Sample ID: TT-SB-34-4.0-6.0 | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-1 | Date Received: 12/03/21 |
| Matrix: SO - Soil | Percent Solids: 81.6 |
| Method: SW846 8082A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7202.D | 1 | 12/10/21 09:50 | RK | 12/07/21 11:25 | OP36974 | GRK186 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 38 | 18 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 38 | 24 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 38 | 24 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 38 | 16 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 38 | 34 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 38 | 21 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 38 | 16 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 38 | 16 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 38 | 25 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 103% | | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 88% | | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 71% | | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 274% ^a | | 10-215% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-34-4.0-6.0 Lab Sample ID: JD36115-1 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 81.6 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 6160 | 63 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Antimony | < 2.5 | 2.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Arsenic | 4.2 | 2.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Barium | 31.8 | 25 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Beryllium | 0.39 | 0.25 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cadmium | < 0.63 | 0.63 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Calcium | 16500 | 630 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Chromium | 15.1 | 1.3 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Cobalt | < 6.3 | 6.3 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Copper | 17.6 | 3.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Iron | 14800 | 63 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Lead | 180 | 2.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Magnesium | 3180 | 630 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Manganese | 223 | 1.9 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Mercury | 0.22 | 0.033 | mg/kg | 1 | 12/07/21 | 12/07/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 21.7 | 5.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Potassium | < 1300 | 1300 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Selenium | < 2.5 | 2.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Silver | < 0.63 | 0.63 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Sodium | < 1300 | 1300 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Thallium | < 1.3 | 1.3 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Vanadium | 23.0 | 6.3 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |
| Zinc | 46.3 | 6.3 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND | SW846 6010D ² SW846 3050B ³ |

(1) Instrument QC Batch: MA51548

(2) Instrument QC Batch: MA51561

(3) Prep QC Batch: MP30201

(4) Prep QC Batch: MP30212

RL = Reporting Limit

4.1

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-34-4.0-6.0 Lab Sample ID: JD36115-1 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 81.6 |
|---|--|

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.27 | 0.27 | mg/kg | 1 | 12/09/21 03:58 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 81.6 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.1

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-34-4.0-6.0 | |
| Lab Sample ID: JD36115-1A | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 81.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82226.D | 1 | 12/24/21 19:36 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.99 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.47 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.62 | 0.33 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.62 | 0.31 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.62 | 0.31 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.62 | 0.31 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.62 | 0.31 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.62 | 0.31 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.62 | 0.31 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.62 | 0.31 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.62 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.62 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.31 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.31 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



4.2

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-34-4.0-6.0 | | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-1A | | Date Received: 12/03/21 |
| Matrix: SO - Soil | | Percent Solids: 81.6 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 105% | | 40-140% |
| | 13C5-PFPeA | 102% | | 50-150% |
| | 13C5-PFHxA | 103% | | 50-150% |
| | 13C4-PFHpA | 103% | | 50-150% |
| | 13C8-PFOA | 105% | | 50-150% |
| | 13C9-PFNA | 103% | | 50-150% |
| | 13C6-PFDA | 99% | | 50-150% |
| | 13C7-PFUnDA | 88% | | 40-140% |
| | 13C2-PFDoDA | 94% | | 40-140% |
| | 13C2-PFTeDA | 108% | | 30-130% |
| | 13C3-PFBS | 106% | | 50-150% |
| | 13C3-PFHxS | 106% | | 50-150% |
| | 13C8-PFOS | 105% | | 50-150% |
| | 13C8-FOSA | 98% | | 30-130% |
| | d3-MeFOSAA | 107% | | 40-140% |
| | d5-EtFOSAA | 113% | | 40-140% |
| | 13C2-6:2FTS | 103% | | 50-150% |
| | 13C2-8:2FTS | 105% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-35-3.0-5.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-2 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240425.D | 1 | 12/07/21 13:38 | PS | 12/03/21 12:21 | n/a | VI9773 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.2 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 4.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.51 | 0.46 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.1 | 0.57 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.44 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.1 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.1 | 0.78 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.5 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.55 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.63 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.47 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.1 | 0.60 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.53 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.1 | 2.0 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.67 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.71 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.57 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.56 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.51 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.50 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.1 | 0.74 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.48 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.67 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.86 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.62 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.48 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.48 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.47 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.46 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.1 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.1 | 2.2 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-35-3.0-5.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-2 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.3 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.4 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.1 | 1.4 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.0 | 0.89 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.48 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.1 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.1 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.0 | 0.41 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.61 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 0.59 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.54 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.1 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.1 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 0.49 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 0.56 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.78 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.1 | 0.70 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.49 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.91 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.47 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.47 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 108% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 86% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-35-3.0-5.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-2 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | M176927.D | 2 | 12/10/21 23:30 | KLS | 12/07/21 10:45 | OP36963 | EM7605 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 140 | 34 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 350 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 350 | 60 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 350 | 120 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^b | ND | 350 | 260 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^b | ND | 350 | 75 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 140 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 140 | 57 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^b | ND | 350 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 700 | 190 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 280 | 66 | ug/kg | |
| 108-95-2 | Phenol | ND | 140 | 36 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^b | ND | 350 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 350 | 52 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 350 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | 83.0 | 70 | 24 | ug/kg | |
| 208-96-8 | Acenaphthylene | 73.3 | 70 | 35 | ug/kg | |
| 98-86-2 | Acetophenone ^b | ND | 350 | 15 | ug/kg | |
| 120-12-7 | Anthracene | 274 | 70 | 43 | ug/kg | |
| 1912-24-9 | Atrazine ^c | ND | 140 | 30 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 852 | 70 | 20 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 762 | 70 | 32 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 986 | 70 | 31 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 474 | 70 | 35 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 403 | 70 | 33 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 140 | 27 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 140 | 17 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 10.5 | 140 | 9.6 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 350 | 17 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 140 | 17 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 350 | 25 | ug/kg | |
| 86-74-8 | Carbazole | 93.8 | 140 | 10 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-35-3.0-5.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-2 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 140 | 28 | ug/kg | |
| 218-01-9 | Chrysene | 862 | 70 | 22 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 140 | 15 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 140 | 30 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 140 | 25 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 140 | 23 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^b | ND | 70 | 22 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 70 | 35 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 140 | 58 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 70 | 46 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 161 | 70 | 31 | ug/kg | |
| 132-64-9 | Dibenzofuran | 55.2 | 140 | 28 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 140 | 11 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 140 | 17 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 140 | 15 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 140 | 12 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 230 | 140 | 16 | ug/kg | |
| 206-44-0 | Fluoranthene | 1760 | 70 | 31 | ug/kg | |
| 86-73-7 | Fluorene | 84.3 | 70 | 32 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 140 | 18 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^b | ND | 70 | 28 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 700 | 28 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 350 | 35 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 559 | 70 | 33 | ug/kg | |
| 78-59-1 | Isophorone | ND | 140 | 15 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 28.8 | 70 | 16 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline ^b | ND | 350 | 16 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 350 | 17 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 350 | 18 | ug/kg | |
| 91-20-3 | Naphthalene | 32.0 | 70 | 20 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 140 | 27 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^b | ND | 140 | 20 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 350 | 26 | ug/kg | |
| 85-01-8 | Phenanthrene | 1210 | 70 | 23 | ug/kg | |
| 129-00-0 | Pyrene | 1630 | 70 | 22 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 350 | 18 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 54% | | 10-109% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-35-3.0-5.0 | |
| Lab Sample ID: JD36115-2 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 94.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 54% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 83% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 77% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 66% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|-------------|--------------|----------|
| | System artifact/aldol-condensation | 3.26 | 390 | ug/kg | J |
| | Phenanthrene methyl | 11.57 | 290 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 11.70 | 300 | ug/kg | JN |
| | Octadecenamide | 14.89 | 300 | ug/kg | J |
| | Unknown PAH substance | 18.15 | 630 | ug/kg | J |
| | Unknown | 19.74 | 420 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 1940 | ug/kg | J |

- (a) Dilution required due to viscosity of the extract matrix.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits high, sample was ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-35-3.0-5.0 Lab Sample ID: JD36115-2 Matrix: SO - Soil Method: SW846 8270E BY SIM SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 94.3 |
|---|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105335.D | 2 | 12/21/21 06:24 | CS | 12/07/21 10:45 | OP36963A | E4M4893 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 7.0 | 3.5 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 55% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 57% | | 17-105% | | |

| | |
|--|--|
| ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range | MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound |
|--|--|

4.3

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-35-3.0-5.0 Lab Sample ID: JD36115-2 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 94.3 |
|--|--|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155542.D | 1 | 12/10/21 12:05 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.3 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 16 | 7.3 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.3 | 1.8 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.3 | 1.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 68% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 53% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-35-3.0-5.0 | |
| Lab Sample ID: JD36115-2 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 94.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723474.D | 1 | 12/10/21 10:06 | CP | 12/07/21 11:25 | OP36973 | G4G3679 |
| Run #2 ^a | 4G9723522.D | 5 | 12/14/21 02:10 | TL | 12/07/21 11:25 | OP36973 | G4G3681 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | 15.1 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.70 | 0.58 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.70 | 0.57 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.70 | 0.63 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.70 | 0.67 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.70 | 0.52 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^b | 4.0 | 0.70 | 0.57 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | 3.9 | 0.70 | 0.32 | ug/kg | |
| 60-57-1 | Dieldrin ^b | 1.7 | 0.70 | 0.48 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 3.5 | 0.70 | 0.64 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^b | 11.7 | 0.70 | 0.62 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 22.1 | 0.70 | 0.62 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.70 | 0.55 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.70 | 0.55 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.70 | 0.40 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.70 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.70 | 0.44 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.70 | 0.61 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.70 | 0.49 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.56 | ug/kg | |
| 53494-70-5 | Endrin ketone | 8.9 | 0.70 | 0.51 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 86% | 92% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 88% | 101% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 107% | 76% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 165% | 158% | 10-197% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-35-3.0-5.0 | |
| Lab Sample ID: | JD36115-2 | Date Sampled: 12/03/21 |
| Matrix: | SO - Soil | Date Received: 12/03/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 94.3 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7203.D | 1 | 12/10/21 10:06 | RK | 12/07/21 11:25 | OP36974 | GRK186 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.1 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 35 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 73% | | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 66% | | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 39% | | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 156% | | 10-215% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-35-3.0-5.0 Lab Sample ID: JD36115-2 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 94.3 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|------------------------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 4250 | 51 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Antimony | < 2.1 | 2.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Arsenic ^a | < 10 | 10 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Barium ^a | < 100 | 100 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Beryllium ^a | < 1.0 | 1.0 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Cadmium ^a | < 2.6 | 2.6 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Calcium | 77500 | 2600 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Chromium ^a | 7.9 | 5.1 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Cobalt ^a | < 26 | 26 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Copper ^a | 19.4 | 13 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Iron | 7910 | 51 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Lead | 79.1 | 2.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Magnesium | 6380 | 510 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Manganese | 301 | 1.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Mercury | 0.18 | 0.029 | mg/kg | 1 | 12/07/21 | 12/07/21 | SB SW846 7471B ¹ | SW846 7471B ⁵ |
| Potassium | < 1000 | 1000 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Selenium ^a | < 10 | 10 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Silver ^a | < 2.6 | 2.6 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Sodium | < 1000 | 1000 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Thallium ^a | < 5.1 | 5.1 | mg/kg | 5 | 12/07/21 | 12/08/21 | ND SW846 6010D ³ | SW846 3050B ⁴ |
| Vanadium | 21.0 | 5.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |
| Zinc | 70.2 | 5.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ⁴ |

- (1) Instrument QC Batch: MA51548
- (2) Instrument QC Batch: MA51561
- (3) Instrument QC Batch: MA51571
- (4) Prep QC Batch: MP30201
- (5) Prep QC Batch: MP30212

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-35-3.0-5.0 | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-2 | Date Received: 12/03/21 |
| Matrix: SO - Soil | Percent Solids: 94.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.23 | 0.23 | mg/kg | 1 | 12/09/21 04:16 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 94.3 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-35-3.0-5.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-2A | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 94.3 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82227.D | 1 | 12/24/21 19:54 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.99 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.40 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.53 | 0.28 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.53 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.53 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-35-3.0-5.0 Lab Sample ID: JD36115-2A Matrix: SO - Soil Method: EPA 537M BY ID IN HOUSE Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 94.3 |
|--|--|

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 88% | | 40-140% |
| | 13C5-PFPeA | 87% | | 50-150% |
| | 13C5-PFHxA | 88% | | 50-150% |
| | 13C4-PFHpA | 90% | | 50-150% |
| | 13C8-PFOA | 92% | | 50-150% |
| | 13C9-PFNA | 91% | | 50-150% |
| | 13C6-PFDA | 89% | | 50-150% |
| | 13C7-PFUnDA | 89% | | 40-140% |
| | 13C2-PFDoDA | 91% | | 40-140% |
| | 13C2-PFTeDA | 94% | | 30-130% |
| | 13C3-PFBS | 93% | | 50-150% |
| | 13C3-PFHxS | 95% | | 50-150% |
| | 13C8-PFOS | 97% | | 50-150% |
| | 13C8-FOSA | 95% | | 30-130% |
| | d3-MeFOSAA | 77% | | 40-140% |
| | d5-EtFOSAA | 83% | | 40-140% |
| | 13C2-6:2FTS | 82% | | 50-150% |
| | 13C2-8:2FTS | 89% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240426.D | 1 | 12/07/21 13:58 | PS | 12/03/21 12:21 | n/a | VI9773 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 4.3 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.52 | 0.48 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.2 | 0.59 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.1 | 0.45 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.2 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.2 | 0.80 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.5 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 2.1 | 0.56 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.1 | 0.65 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.1 | 0.48 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.2 | 0.62 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.1 | 0.54 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.2 | 2.1 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.1 | 0.69 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.1 | 0.73 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.1 | 0.59 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.57 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.52 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.52 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.2 | 0.76 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.52 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.49 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.69 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.88 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.64 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.1 | 0.50 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.1 | 0.50 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.1 | 0.48 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.47 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.2 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.2 | 2.2 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.1 | 1.5 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.2 | 1.5 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.1 | 0.92 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.49 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.2 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.2 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.1 | 0.42 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.1 | 0.63 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.1 | 0.61 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.0 | 0.55 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.2 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.2 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.1 | 0.51 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.1 | 0.58 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.80 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.2 | 0.72 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.1 | 0.50 | ug/kg | |
| | m,p-Xylene | ND | 1.0 | 0.94 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.48 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 88% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176873.D | 1 | 12/08/21 15:46 | KLS | 12/07/21 10:45 | OP36963 | EM7603 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 70 | 17 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 180 | 21 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 180 | 30 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 180 | 62 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 180 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 180 | 37 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 70 | 22 | ug/kg | |
| | 3&4-Methylphenol | ND | 70 | 29 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 180 | 23 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 350 | 94 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 33 | ug/kg | |
| 108-95-2 | Phenol | ND | 70 | 18 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 180 | 23 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 180 | 26 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 180 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 35 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 35 | 18 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 180 | 7.5 | ug/kg | |
| 120-12-7 | Anthracene | ND | 35 | 21 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 70 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 36.7 | 35 | 9.9 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 36.4 | 35 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 39.5 | 35 | 15 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 21.6 | 35 | 18 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | 17.7 | 35 | 16 | ug/kg | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 70 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 70 | 8.5 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 70 | 4.8 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 180 | 8.7 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 70 | 8.3 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 180 | 13 | ug/kg | |
| 86-74-8 | Carbazole | ND | 70 | 5.1 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|----|
| 105-60-2 | Caprolactam ^a | ND | 70 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 34.2 | 35 | 11 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 70 | 7.5 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 70 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 70 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 70 | 11 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 35 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 35 | 18 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 70 | 29 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 35 | 23 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 35 | 15 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 70 | 14 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 21.1 | 70 | 5.7 | ug/kg | JB |
| 117-84-0 | Di-n-octyl phthalate | ND | 70 | 8.7 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 70 | 7.5 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 70 | 6.2 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 50.9 | 70 | 8.2 | ug/kg | J |
| 206-44-0 | Fluoranthene | 57.2 | 35 | 16 | ug/kg | |
| 86-73-7 | Fluorene | ND | 35 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 70 | 8.9 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 35 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 350 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 180 | 17 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 23.8 | 35 | 16 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 70 | 7.5 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 35 | 7.9 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 180 | 8.3 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 180 | 8.8 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 180 | 9.1 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 35 | 9.9 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 70 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 70 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 180 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 16.2 | 35 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 61.6 | 35 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 180 | 8.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 52% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-36-6.0-8.0 Lab Sample ID: JD36115-3 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 93.6 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 59% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 91% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 70% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | system artifact | 3.21 | 200 | ug/kg | J |
| | system artifact/aldol-condensation | 3.28 | 2300 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 14.91 | 180 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 180 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-36-6.0-8.0 | |
| Lab Sample ID: JD36115-3 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 93.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105333.D | 1 | 12/21/21 05:44 | CS | 12/07/21 10:45 | OP36963A | E4M4893 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.5 | 1.8 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 74% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 74% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-36-6.0-8.0 | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-3 | Date Received: 12/03/21 |
| Matrix: SO - Soil | Percent Solids: 93.6 |
| Method: SW846 8151A SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155543.D | 1 | 12/10/21 12:33 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.6 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 16 | 7.2 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.2 | 1.8 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.2 | 1.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 24% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 22% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|--------------------------|---|------------------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723475.D | 1 | 12/10/21 10:21 | CP | 12/07/21 11:25 | OP36973 | G4G3679 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.69 | 0.57 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.69 | 0.56 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.69 | 0.63 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.69 | 0.67 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.69 | 0.51 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.69 | 0.56 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.69 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.69 | 0.48 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.69 | 0.64 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.69 | 0.61 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.69 | 0.61 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.69 | 0.54 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.69 | 0.54 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.69 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.69 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.69 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.69 | 0.60 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.69 | 0.49 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.55 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.69 | 0.50 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 57% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 63% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 40% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 50% | | 10-197% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | SW846 8082A SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7204.D | 1 | 12/10/21 10:22 | RK | 12/07/21 11:25 | OP36974 | GRK186 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 35 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 35 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 35 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 35 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 35 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 35 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 35 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 35 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 35 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 63% | | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 60% | | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 31% | | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 90% | | 10-215% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-36-6.0-8.0 Lab Sample ID: JD36115-3 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 93.6 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 2760 | 55 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Arsenic | 3.2 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Barium | < 22 | 22 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Beryllium | < 0.22 | 0.22 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Calcium | 626 | 550 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Chromium | 6.8 | 1.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Cobalt | < 5.5 | 5.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Copper | 3.8 | 2.7 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Iron | 8390 | 55 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Lead | 8.7 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Magnesium | 1870 | 550 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Manganese | 97.0 | 1.6 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Mercury | 0.075 | 0.030 | mg/kg | 1 | 12/07/21 | 12/07/21 | SB SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 14.3 | 4.4 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Silver | < 0.55 | 0.55 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Vanadium | 9.3 | 5.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Zinc | 18.3 | 5.5 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |

(1) Instrument QC Batch: MA51548

(2) Instrument QC Batch: MA51561

(3) Prep QC Batch: MP30201

(4) Prep QC Batch: MP30212

RL = Reporting Limit

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-36-6.0-8.0 | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-3 | Date Received: 12/03/21 |
| Matrix: SO - Soil | Percent Solids: 93.6 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.21 | 0.21 | mg/kg | 1 | 12/09/21 04:17 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 93.6 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36-6.0-8.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-3A | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82228.D | 1 | 12/24/21 20:13 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.96 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.41 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.55 | 0.29 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.55 | 0.27 | ug/kg | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.55 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.27 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-36-6.0-8.0 | | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-3A | | Date Received: 12/03/21 |
| Matrix: SO - Soil | | Percent Solids: 93.6 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 100% | | 40-140% |
| | 13C5-PFPeA | 99% | | 50-150% |
| | 13C5-PFHxA | 99% | | 50-150% |
| | 13C4-PFHpA | 99% | | 50-150% |
| | 13C8-PFOA | 102% | | 50-150% |
| | 13C9-PFNA | 97% | | 50-150% |
| | 13C6-PFDA | 92% | | 50-150% |
| | 13C7-PFUnDA | 89% | | 40-140% |
| | 13C2-PFDoDA | 96% | | 40-140% |
| | 13C2-PFTeDA | 101% | | 30-130% |
| | 13C3-PFBS | 101% | | 50-150% |
| | 13C3-PFHxS | 100% | | 50-150% |
| | 13C8-PFOS | 100% | | 50-150% |
| | 13C8-FOSA | 98% | | 30-130% |
| | d3-MeFOSAA | 110% | | 40-140% |
| | d5-EtFOSAA | 112% | | 40-140% |
| | 13C2-6:2FTS | 100% | | 50-150% |
| | 13C2-8:2FTS | 100% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-37-7.0-9.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-4 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.1 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | I240427.D | 1 | 12/07/21 14:18 | PS | 12/03/21 12:21 | n/a | VI9773 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.4 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 9.7 | 4.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.49 | 0.44 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.9 | 0.55 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 1.9 | 0.42 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.9 | 1.3 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 4.9 | 0.74 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.7 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 1.9 | 0.52 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 1.9 | 0.60 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 1.9 | 0.45 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.9 | 0.58 | ug/kg | |
| 67-66-3 | Chloroform | ND | 1.9 | 0.51 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 4.9 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 1.9 | 0.64 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.9 | 0.68 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 1.9 | 0.55 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.97 | 0.41 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.97 | 0.53 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.97 | 0.48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.97 | 0.48 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.9 | 0.71 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.97 | 0.48 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.97 | 0.46 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.97 | 0.64 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.97 | 0.82 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.97 | 0.59 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.9 | 0.46 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.9 | 0.46 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.9 | 0.44 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.97 | 0.44 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.9 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 4.9 | 2.1 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-37-7.0-9.0 | |
| Lab Sample ID: JD36115-4 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8270E SW846 3546 | Percent Solids: 95.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176874.D | 1 | 12/08/21 16:15 | KLS | 12/07/21 10:45 | OP36963 | EM7603 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 69 | 17 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 170 | 21 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 170 | 29 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 170 | 61 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 170 | 130 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 170 | 37 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 69 | 22 | ug/kg | |
| | 3&4-Methylphenol | ND | 69 | 28 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 170 | 23 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 340 | 92 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 140 | 32 | ug/kg | |
| 108-95-2 | Phenol | ND | 69 | 18 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 170 | 23 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 170 | 26 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 170 | 21 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 34 | 12 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 34 | 18 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 170 | 7.4 | ug/kg | |
| 120-12-7 | Anthracene | ND | 34 | 21 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 69 | 15 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 37.5 | 34 | 9.8 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 35.2 | 34 | 16 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 39.3 | 34 | 15 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 21.9 | 34 | 17 | ug/kg | J |
| 207-08-9 | Benzo(k)fluoranthene | ND | 34 | 16 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 69 | 13 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 69 | 8.4 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | ND | 69 | 4.7 | ug/kg | |
| 100-52-7 | Benzaldehyde | ND | 170 | 8.6 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 69 | 8.2 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 170 | 12 | ug/kg | |
| 86-74-8 | Carbazole | ND | 69 | 5.0 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-37-7.0-9.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-4 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.1 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|----|
| 105-60-2 | Caprolactam ^a | ND | 69 | 14 | ug/kg | |
| 218-01-9 | Chrysene | 29.9 | 34 | 11 | ug/kg | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 69 | 7.4 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 69 | 15 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 69 | 12 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 69 | 11 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 34 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 34 | 17 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 69 | 29 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 34 | 23 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 34 | 15 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 69 | 14 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 42.5 | 69 | 5.6 | ug/kg | JB |
| 117-84-0 | Di-n-octyl phthalate | ND | 69 | 8.6 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 69 | 7.3 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 69 | 6.1 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 39.8 | 69 | 8.1 | ug/kg | J |
| 206-44-0 | Fluoranthene | 53.4 | 34 | 15 | ug/kg | |
| 86-73-7 | Fluorene | ND | 34 | 16 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 69 | 8.7 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 34 | 14 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^a | ND | 340 | 14 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 170 | 17 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 23.6 | 34 | 16 | ug/kg | J |
| 78-59-1 | Isophorone | ND | 69 | 7.4 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 34 | 7.8 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 170 | 8.1 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 170 | 8.6 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 170 | 8.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 34 | 9.7 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 69 | 13 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 69 | 10 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 170 | 13 | ug/kg | |
| 85-01-8 | Phenanthrene | 24.8 | 34 | 12 | ug/kg | J |
| 129-00-0 | Pyrene | 54.8 | 34 | 11 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 170 | 8.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 44% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-37-7.0-9.0 Lab Sample ID: JD36115-4 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 95.1 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 47% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 81% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 57% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 54% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 58% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | system artifact | 3.21 | 140 | ug/kg | J |
| | system artifact/aldol-condensation | 3.27 | 250 | ug/kg | J |
| 301-02-0 | 9-Octadecenamide, (Z)- | 14.91 | 220 | ug/kg | JN |
| | Total TIC, Semi-Volatile | | 220 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-37-7.0-9.0 | |
| Lab Sample ID: JD36115-4 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8270E BY SIM SW846 3546 | Percent Solids: 95.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105334.D | 1 | 12/21/21 06:04 | CS | 12/07/21 10:45 | OP36963A | E4M4893 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.4 | 1.7 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 56% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 61% | | 17-105% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-37-7.0-9.0 | |
| Lab Sample ID: JD36115-4 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8151A SW846 3546 | Percent Solids: 95.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155544.D | 1 | 12/10/21 13:01 | RK | 12/07/21 10:55 | OP36933 | GOA5500 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.5 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.4 | 1.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.4 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 35% | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 31% | | 10-125% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-37-7.0-9.0 | |
| Lab Sample ID: JD36115-4 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8081B SW846 3546 | Percent Solids: 95.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4G9723476.D | 1 | 12/10/21 10:36 | CP | 12/07/21 11:25 | OP36973 | G4G3679 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.3 g | 10.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin | ND | 0.65 | 0.53 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.65 | 0.52 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.65 | 0.58 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.65 | 0.62 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.65 | 0.48 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.65 | 0.52 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.65 | 0.29 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.65 | 0.44 | ug/kg | |
| 72-54-8 | 4,4'-DDD | ND | 0.65 | 0.59 | ug/kg | |
| 72-55-9 | 4,4'-DDE | ND | 0.65 | 0.57 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.65 | 0.57 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.65 | 0.50 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.65 | 0.50 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.65 | 0.37 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.65 | 0.37 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.65 | 0.40 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.65 | 0.56 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.65 | 0.45 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.3 | 0.51 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.65 | 0.47 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 16 | 15 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 84% | | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 96% | | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 56% | | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 88% | | 10-197% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-37-7.0-9.0 | |
| Lab Sample ID: JD36115-4 | Date Sampled: 12/03/21 |
| Matrix: SO - Soil | Date Received: 12/03/21 |
| Method: SW846 8082A SW846 3546 | Percent Solids: 95.1 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7205.D | 1 | 12/10/21 10:39 | RK | 12/07/21 11:25 | OP36974 | GRK186 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.3 g | 10.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 32 | 15 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 32 | 20 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 32 | 21 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 32 | 13 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 32 | 29 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 32 | 17 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 32 | 14 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 32 | 14 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 32 | 21 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 90% | | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 85% | | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 51% | | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 81% | | 10-215% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-37-7.0-9.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-4 | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.1 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 2410 | 54 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Arsenic | < 2.2 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Barium | < 22 | 22 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Beryllium | < 0.22 | 0.22 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Cadmium | < 0.54 | 0.54 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Calcium | 4160 | 540 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Chromium | 7.4 | 1.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Cobalt | < 5.4 | 5.4 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Copper | 5.9 | 2.7 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Iron | 6040 | 54 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Lead | 11.3 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Magnesium | 1720 | 540 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Manganese | 77.2 | 1.6 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Mercury | 0.056 | 0.028 | mg/kg | 1 | 12/07/21 | 12/07/21 | SB SW846 7471B ¹ | SW846 7471B ⁴ |
| Nickel | 18.9 | 4.3 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Silver | < 0.54 | 0.54 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Vanadium | 9.5 | 5.4 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |
| Zinc | 20.3 | 5.4 | mg/kg | 1 | 12/07/21 | 12/07/21 | ND SW846 6010D ² | SW846 3050B ³ |

(1) Instrument QC Batch: MA51548

(2) Instrument QC Batch: MA51561

(3) Prep QC Batch: MP30201

(4) Prep QC Batch: MP30212

RL = Reporting Limit

4.7

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-37-7.0-9.0 Lab Sample ID: JD36115-4 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/03/21 Date Received: 12/03/21 Percent Solids: 95.1 |
|---|--|

4.7

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.25 | 0.25 | mg/kg | 1 | 12/09/21 04:18 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 95.1 | | % | 1 | 12/05/21 15:00 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-37-7.0-9.0 | Date Sampled: | 12/03/21 |
| Lab Sample ID: | JD36115-4A | Date Received: | 12/03/21 |
| Matrix: | SO - Soil | Percent Solids: | 95.1 |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82229.D | 1 | 12/24/21 20:31 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.05 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.0 | 0.39 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.51 | 0.27 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.51 | 0.26 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.51 | 0.26 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.51 | 0.26 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.51 | 0.26 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.51 | 0.26 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.51 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.51 | 0.26 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.0 | 0.51 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.0 | 0.51 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.0 | 0.26 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.0 | 0.26 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-37-7.0-9.0 | | Date Sampled: 12/03/21 |
| Lab Sample ID: JD36115-4A | | Date Received: 12/03/21 |
| Matrix: SO - Soil | | Percent Solids: 95.1 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 110% | | 40-140% |
| | 13C5-PFPeA | 108% | | 50-150% |
| | 13C5-PFHxA | 109% | | 50-150% |
| | 13C4-PFHpA | 109% | | 50-150% |
| | 13C8-PFOA | 111% | | 50-150% |
| | 13C9-PFNA | 111% | | 50-150% |
| | 13C6-PFDA | 112% | | 50-150% |
| | 13C7-PFUnDA | 110% | | 40-140% |
| | 13C2-PFDoDA | 110% | | 40-140% |
| | 13C2-PFTeDA | 111% | | 30-130% |
| | 13C3-PFBS | 111% | | 50-150% |
| | 13C3-PFHxS | 111% | | 50-150% |
| | 13C8-PFOS | 111% | | 50-150% |
| | 13C8-FOSA | 116% | | 30-130% |
| | d3-MeFOSAA | 116% | | 40-140% |
| | d5-EtFOSAA | 117% | | 40-140% |
| | 13C2-6:2FTS | 105% | | 50-150% |
| | 13C2-8:2FTS | 115% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)



50
5/11

CHAIN OF CUSTODY

Page of

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #
Bottle Order Control # 59-111121-141
SGS Quote #
SGS Job # JD36115

EHSQA-QAC-0023-04-FORM-Standard COC

| Client / Reporting Information | | | | Project Information | | | | Requested Analysis | | | | | | | | Matrix Codes | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--------------------|--|---------------|--|-------------------|--|--------------|--|--------------|--|------------|--|-------------|--|-------|--|---------------|--|--|
| Company Name: TERRA TECH | | | | Project Name: 2ND AVE # 33RD St | | | | V8260 TLL20 | | AG 8270 TLL20 | | B2270 SIM 14-Diox | | T8082 PCB II | | T8081 PCB I | | A-8151 STD | | XMETAL C:IN | | METAL | | LCID 537 NY21 | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank |
| Street Address: 6 Century Dr. | | | | Street: 2ND AVE # 33RD St | | | | | | | | | | | | | | | | | | | | | | |
| City: PARSIPPANY NJ State: 07954 Zip: 07954 | | | | Billing Information (if different from Report to) | | | | | | | | | | | | | | | | | | | | | | |
| Project Contact: BIG LAMINARULO E-mail: ROBERT.CANTACCIALLO@TERRATECH.COM | | | | Project # TERRATECH Street Address 630 40th | | | | | | | | | | | | | | | | | | | | | | |
| Phone # (973) 630-4045 | | | | Client Purchase Order # | | | | City: State: Zip: | | | | | | | | | | | | | | | | | | |
| Sampler(s) Name(s): A. VALLI | | | | Project Manager | | | | Attention: | | | | | | | | | | | | | | | | | | |

5.1

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Date | Time | Sampled by | Grab (G) / Comp (C) | Source Characterized (Y/N) | Matrix | # of bottles | Number of preserved bottles | | | | | | | | | | | LAB USE ONLY | | | | | | | | | | | | | | | |
|--------------|--------------------------------|----------------|----------|------|------------|---------------------|----------------------------|--------|--------------|-----------------------------|------|------|-------|-------|------|----------|------|--------|--|--|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | HCl | NH3H | PbO2 | H2SO4 | HCNO3 | None | O3 Water | MEDI | ENCODE | | | | | | | | | | | | | | | | | | |
| 1 | TT-SB-34-4.0-6.0 | 9 | 12/03/11 | 0815 | AV | G | | So | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | TT-SB-35-3.0-5.0 | | 12/03/11 | 0947 | AV | G | | So | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | TT-SB-36-6.0-8.0 | | 12/03/11 | 1108 | AV | G | | So | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | TT-SB-37-7.0-9.0 | 6 | 12/03/11 | 1218 | AV | G | | So | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Turn Around Time (Business Days) | Deliverable | Comments / Special Instructions |
|--|--|--|
| <input type="checkbox"/> 10 Business Days <input type="checkbox"/> 5 Business Days <input type="checkbox"/> 3 Business Days* <input type="checkbox"/> 2 Business Days* <input type="checkbox"/> 1 Business Day* <input type="checkbox"/> Other _____ <small>All data available via LabLink</small> | <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NJ Reduced (Level 3) <input type="checkbox"/> Full Tier I (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ DKQP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> MA MCP Criteria <input type="checkbox"/> CT RCP Criteria <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> DOD-QSMS | 03x Sy Enclos Initial Assessment SA EIN Label Verification _____ |

| | | | | |
|--|---|--|--|--|
| Relinquished by: A. Valli Date / Time: 12/03/11 12:54 Relinquished by: _____ Date / Time: _____ Relinquished by: _____ Date / Time: _____ | Received by: [Signature] Date / Time: 12/03/11 12:54 Received by: _____ Date / Time: _____ Received by: _____ Date / Time: _____ | Relinquished by: _____ Date / Time: _____ Relinquished by: _____ Date / Time: _____ Relinquished by: _____ Date / Time: _____ | Received by: [Signature] Date / Time: 12/03/11 1:15 Received by: _____ Date / Time: _____ Received by: _____ Date / Time: _____ | Custody Seal # _____ <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact <input type="checkbox"/> Absent Thermo ID: V On Ice <input type="checkbox"/> Cooler Temp: 2-3 °C <small>see Sample Receipt Summary</small> |
|--|---|--|--|--|

SGS Sample Receipt Summary

Job Number: JD36115

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/3/2021 5:15:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.9);

| <u>Cooler Security</u> | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) _____ |
|--------------------|-----------------|-----------------|------------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD36115: Chain of Custody

Page 2 of 3



5.1

Job Change Order: JD36115

Requested Date: 12/13/2021 **Received Date:** 12/13/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD36115-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD36115: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3490
www.sgs.com/ehusa

Form containing Client/Reporting Information, Project Information, Requested Analysis, Matrix Codes, and Chain of Custody table with columns for Sample ID, Date, Time, and various analysis types.

5.2

JD36115 JB
Rev Date: 4/10/15

JD36115: Chain of Custody
Page 1 of 2
SGS Orlando, FL



SGS Sample Receipt Summary

Job Number: JD36115

Client: DAYTON NJ

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/8/2021 10:45:00 AM

Delivery Method: FED EX

Airbill #s: _____

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler
 - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

Sample Information

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____

Number of 5035 Field Kits: _____

Number of Lab Filtered Metals: _____

Test Strip Lot #: pH 0-3 230315

pH 10-12 219813A

Other: (Specify) _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: CARLOSD

Date: 12/8/2021 10:45:00 A

Reviewer: _____

Date: _____

JD36115: Chain of Custody

Page 2 of 2



5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD36272

Sampling Date: 12/06/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 62



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499

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Sample Summary

Tetra Tech

Job No: JD36272

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | |
|-------------|----------|----------|----------|----|-------------------|------------------|
| JD36272-1 | 12/06/21 | 08:55 AV | 12/07/21 | SO | Soil | TT-SB-38-7.5-9.5 |
| JD36272-1A | 12/06/21 | 08:55 AV | 12/07/21 | SO | Soil | TT-SB-38-7.5-9.5 |
| JD36272-2 | 12/06/21 | 10:24 AV | 12/07/21 | SO | Soil | TT-SB-39-6.5-8.5 |
| JD36272-2A | 12/06/21 | 10:24 AV | 12/07/21 | SO | Soil | TT-SB-39-6.5-8.5 |
| JD36272-2AD | 12/06/21 | 10:24 AV | 12/07/21 | SO | Soil Dup/MSD | TT-SB-39-6.5-8.5 |
| JD36272-2AS | 12/06/21 | 10:24 AV | 12/07/21 | SO | Soil Matrix Spike | TT-SB-39-6.5-8.5 |
| JD36272-2D | 12/06/21 | 10:24 AV | 12/07/21 | SO | Soil Dup/MSD | TT-SB-39-6.5-8.5 |
| JD36272-2S | 12/06/21 | 10:24 AV | 12/07/21 | SO | Soil Matrix Spike | TT-SB-39-6.5-8.5 |
| JD36272-3 | 12/06/21 | 11:53 AV | 12/07/21 | SO | Soil | TT-SB-40-6.0-8.0 |
| JD36272-3A | 12/06/21 | 11:53 AV | 12/07/21 | SO | Soil | TT-SB-40-6.0-8.0 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No: JD36272

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 1/5/2022 11:40:56 AM

On 12/07/2021, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36272 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO

Batch ID: V3C7574

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36272-2MS, JD36272-2MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene, Cyclohexane, Isopropylbenzene, m,p-Xylene, Methylcyclohexane, o-Xylene, Tetrachloroethene, Xylene (total) are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Bromoform, Carbon tetrachloride, Cyclohexane, Ethylbenzene, Styrene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, m,p-Xylene, Xylene (total) are outside control limits for sample JD36272-2MSD. Outside control limits due to matrix interference.
- JD36272-2 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36272-3 for 1,1-Dichloroethene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36272-3 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.
- JD36272-1 for 1,1-Dichloroethene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36272-2 for 1,1-Dichloroethene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36272-1 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: F:OP88849

- The data for EPA 537M BY ID meets quality control requirements.
- JD36272-2A: Analysis performed at SGS Orlando, FL.
- JD36272-1A: Analysis performed at SGS Orlando, FL.
- JD36272-3A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO

Batch ID: OP37036

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36272-2MS, JD36272-2MSD were used as the QC samples indicated.
- Sample(s) JD36272-1 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4-Nitrophenol, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, , Chrysene, Fluoranthene, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to matrix interference and dilution
- Matrix Spike Recovery(s) for Anthracene, Benzo(k)fluoranthene are outside control limits. Outside control limits due to matrix interference and dilution
- JD36272-2: Dilution required due to viscosity of the extract matrix.
- JD36272-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD36272-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD36272-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36272-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO

Batch ID: OP37036A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36272-2MS, JD36272-2MSD were used as the QC samples indicated.
- JD36272-2: Dilution required due to viscosity of the extract matrix.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO

Batch ID: OP37039

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36272-2MS, JD36272-2MSD, OP37039-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD36272-1: Had TBA cleanup. Confirmation run.
- OP37039-MB1: Had TBA cleanup.
- JD36272-1: Had TBA cleanup.
- JD36272-2: Had TBA cleanup. Confirmation run.
- JD36272-2: Had TBA cleanup.
- JD36272-3: Confirmation run.
- JD36272-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD36272-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD36272-1 for Aldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-2 for Aldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-3 for Aldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-3 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-3 for gamma-BHC (Lindane): More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD36272-3 for alpha-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-3 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD36272-3 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO

Batch ID: OP37040

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36272-2MS, JD36272-2MSD, OP37040-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD36272-2: Had TBA cleanup.
- JD36272-2: Had TBA cleanup. Confirmation run.
- JD36272-3: Had TBA cleanup.
- JD36272-3: Had TBA cleanup. Confirmation run.
- JD36272-1: Confirmation run.
- JD36272-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD36272-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP37040-BSD for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP37040-BS1 for Aroclor 1016: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP37040-BSD for Aroclor 1016: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD36272-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP37040-BS1 for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

Wednesday, January 5, 2022

Page 3 of 5

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: SO

Batch ID: OP37035

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36272-2MS, JD36272-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Duplicate Recovery(s) for 2,4-D, 2,4,5-T are outside control limits. Outside control limits due to matrix interference
- RPD(s) for MSD for 2,4,5-T, 2,4-D are outside control limits for sample OP37035-MSD. Analytical precision exceeds in-house control limits.
- JD36272-2: Dilution required due to viscosity of the extract matrix.
- OP37035-MS/MSD: Dilution required due to viscosity of the extract matrix.
- JD36272-2 for 2,4-DCAA: Outside control limits due to matrix interference.
- OP37035-BS1 for 2,4,5-TP (Silvex): Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD36272-3 for 2,4-DCAA: Outside control limits due to matrix interference.
- JD36272-1 for 2,4-DCAA: Outside control limits due to matrix interference.
- OP37035-BSD for 2,4,5-TP (Silvex): Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

Metals Analysis By Method SW846 6010D

Matrix: SO

Batch ID: MP30281

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36272-2PS, JD36272-2SDL, JD36272-2MS, JD36272-2MSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Magnesium, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Magnesium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Calcium, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Zinc are outside control limits for sample MP30281-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Cadmium, Selenium, Silver, Thallium, Magnesium, Sodium, Zinc are outside control limits for sample MP30281-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD36272-1 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD36272-1 for Manganese: Elevated detection limit due to dilution required for high interfering element.
- JD36272-1 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD36272-1 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD36272-1 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD36272-1 for Copper: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 7471B

Matrix: SO

Batch ID: MP30267

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36272-2MS, JD36272-2MSD were used as the QC samples for metals.

Wednesday, January 5, 2022

Page 4 of 5

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO

Batch ID: GN24560

- Sample(s) JD36272-2DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO

Batch ID: GP37469

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36272-2DUP, JD36272-2MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP37469-D1. RPD acceptable due to low duplicate and sample concentrations.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD36272

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/29/2021 10:37:52

On 12/07/2021, 3 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36272 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO

Batch ID: OP88849

Sample(s) JD36176-13AMS, JD36176-13AMSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD36272
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|------|-------|-------------|
| JD36272-1 | TT-SB-38-7.5-9.5 | | | | | |
| Acetone | | 11.5 J | 12 | 4.9 | ug/kg | SW846 8260D |
| Acenaphthene | | 233 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 78.1 | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 619 | 37 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 1120 | 37 | 10 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 1130 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 1470 | 37 | 16 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 664 | 37 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 570 | 37 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 44.4 J | 74 | 5.1 | ug/kg | SW846 8270E |
| Carbazole | | 293 | 74 | 5.4 | ug/kg | SW846 8270E |
| Chrysene | | 1150 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 219 | 37 | 16 | ug/kg | SW846 8270E |
| Dibenzofuran | | 237 | 74 | 15 | ug/kg | SW846 8270E |
| Di-n-butyl phthalate | | 13.6 JB | 74 | 6.0 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate | | 56.0 J | 74 | 8.7 | ug/kg | SW846 8270E |
| Fluoranthene | | 2170 | 37 | 17 | ug/kg | SW846 8270E |
| Fluorene | | 322 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 806 | 37 | 17 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 157 | 37 | 8.4 | ug/kg | SW846 8270E |
| Naphthalene | | 273 | 37 | 10 | ug/kg | SW846 8270E |
| Phenanthrene | | 2010 | 37 | 12 | ug/kg | SW846 8270E |
| Pyrene | | 2180 | 37 | 12 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 7430 J | | | ug/kg | |
| Aldrin ^a | | 2.1 | 0.72 | 0.59 | ug/kg | SW846 8081B |
| Dieldrin ^a | | 1.1 | 0.72 | 0.50 | ug/kg | SW846 8081B |
| 4,4'-DDD ^b | | 4.8 | 0.72 | 0.66 | ug/kg | SW846 8081B |
| 4,4'-DDE ^b | | 4.3 | 0.72 | 0.63 | ug/kg | SW846 8081B |
| 4,4'-DDT ^b | | 4.8 | 0.72 | 0.64 | ug/kg | SW846 8081B |
| Aluminum | | 7760 | 60 | | mg/kg | SW846 6010D |
| Arsenic ^c | | 9.4 | 4.8 | | mg/kg | SW846 6010D |
| Barium | | 425 | 24 | | mg/kg | SW846 6010D |
| Beryllium | | 0.52 | 0.24 | | mg/kg | SW846 6010D |
| Cadmium | | 0.69 | 0.60 | | mg/kg | SW846 6010D |
| Calcium | | 30900 | 1200 | | mg/kg | SW846 6010D |
| Chromium | | 16.4 | 1.2 | | mg/kg | SW846 6010D |
| Cobalt | | 6.5 | 6.0 | | mg/kg | SW846 6010D |
| Copper ^c | | 45.5 | 6.0 | | mg/kg | SW846 6010D |
| Iron | | 25500 | 120 | | mg/kg | SW846 6010D |
| Lead | | 563 | 2.4 | | mg/kg | SW846 6010D |
| Magnesium | | 4230 | 600 | | mg/kg | SW846 6010D |
| Manganese ^c | | 261 | 3.6 | | mg/kg | SW846 6010D |
| Mercury | | 0.40 | 0.037 | | mg/kg | SW846 7471B |

Summary of Hits

Job Number: JD36272
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|------|-----|-------|--------------------|
| Nickel | | 26.4 | 4.8 | | mg/kg | SW846 6010D |
| Potassium | | 1390 | 1200 | | mg/kg | SW846 6010D |
| Vanadium | | 25.0 | 6.0 | | mg/kg | SW846 6010D |
| Zinc | | 342 | 12 | | mg/kg | SW846 6010D |
| Cyanide | | 0.38 | 0.25 | | mg/kg | SW846 9012B/LACHAT |

JD36272-1A TT-SB-38-7.5-9.5

No hits reported in this sample.

JD36272-2 TT-SB-39-6.5-8.5

| | | | | | | |
|---|--|--------|------|------|-------|-------------|
| Acetone | | 10.1 J | 11 | 4.5 | ug/kg | SW846 8260D |
| Acenaphthene ^d | | 258 | 180 | 62 | ug/kg | SW846 8270E |
| Anthracene ^d | | 604 | 180 | 110 | ug/kg | SW846 8270E |
| Benzo(a)anthracene ^d | | 1300 | 180 | 51 | ug/kg | SW846 8270E |
| Benzo(a)pyrene ^d | | 1300 | 180 | 81 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene ^d | | 1780 | 180 | 79 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene ^d | | 670 | 180 | 89 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene ^d | | 610 | 180 | 83 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl ^d | | 43.5 J | 360 | 24 | ug/kg | SW846 8270E |
| Carbazole ^d | | 271 J | 360 | 26 | ug/kg | SW846 8270E |
| Chrysene ^d | | 1280 | 180 | 56 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene ^d | | 250 | 180 | 79 | ug/kg | SW846 8270E |
| Dibenzofuran ^d | | 237 J | 360 | 73 | ug/kg | SW846 8270E |
| Di-n-butyl phthalate ^d | | 126 J | 360 | 29 | ug/kg | SW846 8270E |
| bis(2-Ethylhexyl)phthalate ^d | | 465 | 360 | 42 | ug/kg | SW846 8270E |
| Fluoranthene ^d | | 2900 | 180 | 80 | ug/kg | SW846 8270E |
| Fluorene ^d | | 363 | 180 | 82 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene ^d | | 961 | 180 | 84 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene ^d | | 167 J | 180 | 40 | ug/kg | SW846 8270E |
| Naphthalene ^d | | 279 | 180 | 50 | ug/kg | SW846 8270E |
| Phenanthrene ^d | | 2090 | 180 | 60 | ug/kg | SW846 8270E |
| Pyrene ^d | | 2680 | 180 | 57 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 1100 J | | | ug/kg | |
| Aldrin ^a | | 1.2 | 0.69 | 0.57 | ug/kg | SW846 8081B |
| gamma-BHC (Lindane) ^a | | 3.1 | 0.69 | 0.51 | ug/kg | SW846 8081B |
| 4,4'-DDD ^b | | 9.5 | 0.69 | 0.63 | ug/kg | SW846 8081B |
| 4,4'-DDE ^b | | 14.8 | 0.69 | 0.60 | ug/kg | SW846 8081B |
| Aluminum | | 6390 | 55 | | mg/kg | SW846 6010D |
| Arsenic | | 5.2 | 2.2 | | mg/kg | SW846 6010D |
| Barium | | 63.4 | 22 | | mg/kg | SW846 6010D |
| Beryllium | | 0.42 | 0.22 | | mg/kg | SW846 6010D |
| Calcium | | 43100 | 2800 | | mg/kg | SW846 6010D |
| Chromium | | 13.1 | 1.1 | | mg/kg | SW846 6010D |

Summary of Hits

Job Number: JD36272
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-----|-------|-------------|
| Cobalt | | 6.1 | 5.5 | | mg/kg | SW846 6010D |
| Copper | | 28.6 | 2.8 | | mg/kg | SW846 6010D |
| Iron | | 12800 | 55 | | mg/kg | SW846 6010D |
| Lead | | 79.4 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 7350 | 550 | | mg/kg | SW846 6010D |
| Manganese | | 202 | 1.7 | | mg/kg | SW846 6010D |
| Mercury | | 0.086 | 0.037 | | mg/kg | SW846 7471B |
| Nickel | | 23.9 | 4.4 | | mg/kg | SW846 6010D |
| Potassium | | 1250 | 1100 | | mg/kg | SW846 6010D |
| Silver | | 1.1 | 0.55 | | mg/kg | SW846 6010D |
| Vanadium | | 23.8 | 5.5 | | mg/kg | SW846 6010D |
| Zinc | | 68.5 | 11 | | mg/kg | SW846 6010D |

JD36272-2A TT-SB-39-6.5-8.5

No hits reported in this sample.

JD36272-3 TT-SB-40-6.0-8.0

| | | | | | | |
|-------------------------------|--|---------|------|------|-------|-------------|
| Acetone | | 19.4 | 9.9 | 4.1 | ug/kg | SW846 8260D |
| Carbon disulfide ^e | | 0.90 J | 2.0 | 0.53 | ug/kg | SW846 8260D |
| Total TIC, Volatile | | 123.3 J | | | ug/kg | |
| Acenaphthene | | 347 | 37 | 13 | ug/kg | SW846 8270E |
| Acenaphthylene | | 250 | 37 | 19 | ug/kg | SW846 8270E |
| Anthracene | | 894 | 37 | 23 | ug/kg | SW846 8270E |
| Benzo(a)anthracene | | 1860 | 37 | 11 | ug/kg | SW846 8270E |
| Benzo(a)pyrene | | 1970 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(b)fluoranthene | | 2490 | 37 | 17 | ug/kg | SW846 8270E |
| Benzo(g,h,i)perylene | | 1200 | 37 | 19 | ug/kg | SW846 8270E |
| Benzo(k)fluoranthene | | 904 | 37 | 17 | ug/kg | SW846 8270E |
| 1,1'-Biphenyl | | 40.3 J | 75 | 5.1 | ug/kg | SW846 8270E |
| Carbazole | | 297 | 75 | 5.4 | ug/kg | SW846 8270E |
| Chrysene | | 2130 | 37 | 12 | ug/kg | SW846 8270E |
| Dibenzo(a,h)anthracene | | 350 | 37 | 17 | ug/kg | SW846 8270E |
| Dibenzofuran | | 384 | 75 | 15 | ug/kg | SW846 8270E |
| Fluoranthene | | 5110 | 370 | 170 | ug/kg | SW846 8270E |
| Fluorene | | 469 | 37 | 17 | ug/kg | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | | 1490 | 37 | 18 | ug/kg | SW846 8270E |
| 2-Methylnaphthalene | | 86.3 | 37 | 8.4 | ug/kg | SW846 8270E |
| Naphthalene | | 265 | 37 | 11 | ug/kg | SW846 8270E |
| Phenanthrene | | 4870 | 370 | 130 | ug/kg | SW846 8270E |
| Pyrene | | 5670 | 370 | 120 | ug/kg | SW846 8270E |
| Total TIC, Semi-Volatile | | 11120 J | | | ug/kg | |
| Aldrin ^f | | 2.6 | 0.73 | 0.60 | ug/kg | SW846 8081B |
| alpha-BHC ^f | | 0.74 | 0.73 | 0.59 | ug/kg | SW846 8081B |

Summary of Hits

Job Number: JD36272
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/06/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------------|------------------|-----------------|-------|------|-------|-------------|
| gamma-BHC (Lindane) ^f | | 3.1 | 0.73 | 0.54 | ug/kg | SW846 8081B |
| alpha-Chlordane ^f | | 5.5 | 0.73 | 0.59 | ug/kg | SW846 8081B |
| Dieldrin ^f | | 2.2 | 0.73 | 0.50 | ug/kg | SW846 8081B |
| 4,4'-DDD | | 49.2 | 0.73 | 0.67 | ug/kg | SW846 8081B |
| 4,4'-DDE ^f | | 12.7 | 0.73 | 0.64 | ug/kg | SW846 8081B |
| 4,4'-DDT | | 10.5 | 0.73 | 0.64 | ug/kg | SW846 8081B |
| Endosulfan-II | | 5.6 | 0.73 | 0.45 | ug/kg | SW846 8081B |
| Aluminum | | 6240 | 54 | | mg/kg | SW846 6010D |
| Arsenic | | 6.4 | 2.2 | | mg/kg | SW846 6010D |
| Barium | | 738 | 22 | | mg/kg | SW846 6010D |
| Beryllium | | 0.37 | 0.22 | | mg/kg | SW846 6010D |
| Cadmium | | 0.64 | 0.54 | | mg/kg | SW846 6010D |
| Calcium | | 34400 | 2700 | | mg/kg | SW846 6010D |
| Chromium | | 18.7 | 1.1 | | mg/kg | SW846 6010D |
| Copper | | 26.6 | 2.7 | | mg/kg | SW846 6010D |
| Iron | | 11600 | 54 | | mg/kg | SW846 6010D |
| Lead | | 374 | 2.2 | | mg/kg | SW846 6010D |
| Magnesium | | 5560 | 540 | | mg/kg | SW846 6010D |
| Manganese | | 271 | 1.6 | | mg/kg | SW846 6010D |
| Mercury | | 0.11 | 0.033 | | mg/kg | SW846 7471B |
| Nickel | | 17.2 | 4.4 | | mg/kg | SW846 6010D |
| Silver | | 1.1 | 0.54 | | mg/kg | SW846 6010D |
| Vanadium | | 21.3 | 5.4 | | mg/kg | SW846 6010D |
| Zinc | | 455 | 11 | | mg/kg | SW846 6010D |

JD36272-3A TT-SB-40-6.0-8.0

No hits reported in this sample.

- (a) Had TBA cleanup. More than 40 % RPD for detected concentrations between the two GC columns.
- (b) Had TBA cleanup.
- (c) Elevated detection limit due to dilution required for high interfering element.
- (d) Dilution required due to viscosity of the extract matrix.
- (e) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.
- (f) More than 40 % RPD for detected concentrations between the two GC columns.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-1 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3C171893.D | 1 | 12/08/21 16:25 | PS | 12/08/21 08:36 | n/a | V3C7574 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 4.9 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 11.5 | 12 | 4.9 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.59 | 0.54 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.9 | 0.66 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.4 | 0.51 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.9 | 1.6 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.9 | 0.90 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 12 | 2.9 | ug/kg | |
| 75-15-0 | Carbon disulfide ^a | ND | 2.4 | 0.63 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.4 | 0.73 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.4 | 0.54 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.9 | 0.70 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.4 | 0.61 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.9 | 2.3 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.4 | 0.78 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.4 | 0.82 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.4 | 0.66 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.2 | 0.50 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.2 | 0.65 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.2 | 0.59 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.2 | 0.58 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.9 | 0.86 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.2 | 0.59 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.2 | 0.56 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene ^a | ND | 1.2 | 0.78 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.2 | 0.99 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.2 | 0.72 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.4 | 0.56 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.4 | 0.56 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.4 | 0.54 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.2 | 0.54 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.9 | 3.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.9 | 2.5 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | |
| Lab Sample ID: | JD36272-1 | Date Sampled: 12/06/21 |
| Matrix: | SO - Soil | Date Received: 12/07/21 |
| Method: | SW846 8260D SW846 5035 | Percent Solids: 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.4 | 1.7 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.9 | 1.6 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.4 | 1.0 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.2 | 0.56 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.9 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.9 | 3.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.4 | 0.48 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.4 | 0.71 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.4 | 0.69 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.2 | 0.62 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.9 | 3.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.9 | 3.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.4 | 0.57 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.4 | 0.66 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.2 | 0.90 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.9 | 0.81 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.4 | 0.57 | ug/kg | |
| | m,p-Xylene | ND | 1.2 | 1.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.2 | 0.54 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.2 | 0.54 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 103% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 118% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 96% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 114% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-1 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176924.D | 1 | 12/10/21 22:02 | KLS | 12/08/21 12:05 | OP37036 | EM7605 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.3 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 74 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 66 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 74 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 74 | 30 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 190 | 24 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 99 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 74 | 19 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 233 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 78.1 | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 190 | 8.0 | ug/kg | |
| 120-12-7 | Anthracene | 619 | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 74 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1120 | 37 | 10 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1130 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1470 | 37 | 16 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 664 | 37 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 570 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 74 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 74 | 9.0 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 44.4 | 74 | 5.1 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.2 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 74 | 8.8 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 293 | 74 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-1 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|-----|-------|----|
| 105-60-2 | Caprolactam | ND | 74 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 1150 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 74 | 7.9 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 74 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 74 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 74 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 37 | 11 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 74 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 24 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 219 | 37 | 16 | ug/kg | |
| 132-64-9 | Dibenzofuran | 237 | 74 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | 13.6 | 74 | 6.0 | ug/kg | JB |
| 117-84-0 | Di-n-octyl phthalate | ND | 74 | 9.2 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 74 | 7.9 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 74 | 6.6 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 56.0 | 74 | 8.7 | ug/kg | J |
| 206-44-0 | Fluoranthene | 2170 | 37 | 17 | ug/kg | |
| 86-73-7 | Fluorene | 322 | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 74 | 9.4 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 18 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 806 | 37 | 17 | ug/kg | |
| 78-59-1 | Isophorone | ND | 74 | 7.9 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 157 | 37 | 8.4 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 190 | 8.7 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.3 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.6 | ug/kg | |
| 91-20-3 | Naphthalene | 273 | 37 | 10 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 74 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 74 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 2010 | 37 | 12 | ug/kg | |
| 129-00-0 | Pyrene | 2180 | 37 | 12 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 32% | | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-1 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 36% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 39% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 45% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 42% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 41% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|------------|-------|----|
| | System artifact | 2.78 | 320 | ug/kg | J |
| | System artifact | 3.19 | 210 | ug/kg | J |
| | System artifact/aldol-condensation | 3.27 | 4500 | ug/kg | J |
| | C3 alkyl benzene | 4.39 | 190 | ug/kg | J |
| | Unknown | 8.69 | 330 | ug/kg | J |
| | Unknown | 10.14 | 290 | ug/kg | J |
| | Unknown | 10.19 | 270 | ug/kg | J |
| | Phenanthrene methyl | 11.52 | 260 | ug/kg | J |
| | Phenanthrene methyl | 11.57 | 340 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 11.70 | 460 | ug/kg | JN |
| | Phenanthrene methyl | 11.76 | 210 | ug/kg | J |
| | Naphthalene, phenyl- | 12.13 | 290 | ug/kg | J |
| | Phenanthrene dimethyl | 12.62 | 220 | ug/kg | J |
| | Unknown | 12.73 | 190 | ug/kg | J |
| | Unknown | 12.78 | 250 | ug/kg | J |
| | Unknown | 12.99 | 190 | ug/kg | J |
| | Pyrene methyl | 13.99 | 430 | ug/kg | J |
| | Pyrene methyl | 14.13 | 230 | ug/kg | J |
| | Octadecenamide | 14.90 | 230 | ug/kg | J |
| | Unknown | 15.28 | 210 | ug/kg | J |
| | Unknown PAH substance | 17.87 | 400 | ug/kg | J |
| | Unknown PAH substance | 18.16 | 930 | ug/kg | J |
| | Unknown | 18.95 | 220 | ug/kg | J |
| | Unknown | 19.06 | 280 | ug/kg | J |
| | Unknown | 19.74 | 280 | ug/kg | J |
| | Unknown | 19.87 | 260 | ug/kg | J |
| | Unknown PAH substance | 20.24 | 210 | ug/kg | J |
| | Unknown PAH substance | 20.71 | 260 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 7430 | ug/kg | J |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | |
| Lab Sample ID: | JD36272-1 | Date Sampled: 12/06/21 |
| Matrix: | SO - Soil | Date Received: 12/07/21 |
| Method: | SW846 8270E BY SIM SW846 3546 | Percent Solids: 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105482.D | 1 | 12/24/21 01:37 | CS | 12/08/21 15:47 | OP37036A | E4M4898 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 31.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 54% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 53% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 54% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-38-7.5-9.5 Lab Sample ID: JD36272-1 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: 86.2 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134528.D | 1 | 12/11/21 01:07 | RK | 12/09/21 09:55 | OP37035 | G3G4907 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.7 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 17 | 7.8 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.5 | 2.0 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.5 | 1.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-------------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 165% ^a | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 9% ^a | | 10-125% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-1 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172107.D | 1 | 12/16/21 01:58 | CP | 12/09/21 11:25 | OP37039 | G1G5938 |
| Run #2 ^b | 1G172135.D | 5 | 12/16/21 22:09 | TL | 12/09/21 11:25 | OP37039 | G1G5939 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.1 g | 10.0 ml |
| Run #2 | 16.1 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^c | 2.1 | 0.72 | 0.59 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.72 | 0.59 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.72 | 0.65 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.72 | 0.69 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.72 | 0.53 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.72 | 0.58 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.72 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin ^c | 1.1 | 0.72 | 0.50 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 4.8 | 0.72 | 0.66 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 4.3 | 0.72 | 0.63 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 4.8 | 0.72 | 0.64 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.72 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.72 | 0.56 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.72 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.72 | 0.42 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.72 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.72 | 0.62 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.72 | 0.51 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.57 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.72 | 0.52 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 82% | 100% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 80% | 79% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 83% | 93% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 202% ^d | 222% ^d | 10-197% |

(a) Had TBA cleanup.

(b) Had TBA cleanup. Confirmation run.

(c) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-38-7.5-9.5 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-1 | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 86.2 |
| Method: SW846 8081B SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.1

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|----------|--------|----|-----|-------|---|
|---------|----------|--------|----|-----|-------|---|

(d) Outside control limits due to matrix interference.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | |
| Lab Sample ID: | JD36272-1 | Date Sampled: 12/06/21 |
| Matrix: | SO - Soil | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | RK7270.D | 1 | 12/13/21 08:02 | CP | 12/09/21 11:25 | OP37040 | GRK187 |
| Run #2 ^a | RK7336.D | 1 | 12/14/21 14:22 | TL | 12/09/21 11:25 | OP37040 | GRK189 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.1 g | 10.0 ml |
| Run #2 | 16.1 g | 10.0 ml |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 22 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 90% | 91% | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 81% | 86% | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 55% | 58% | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 225% ^b | 231% ^b | 10-215% |

(a) Confirmation run.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-1 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|------------------------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 7760 | 60 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Antimony | < 2.4 | 2.4 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Arsenic ^a | 9.4 | 4.8 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Barium | 425 | 24 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Beryllium | 0.52 | 0.24 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Cadmium | 0.69 | 0.60 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Calcium | 30900 | 1200 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Chromium | 16.4 | 1.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Cobalt | 6.5 | 6.0 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Copper ^a | 45.5 | 6.0 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Iron | 25500 | 120 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Lead | 563 | 2.4 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Magnesium | 4230 | 600 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Manganese ^a | 261 | 3.6 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Mercury | 0.40 | 0.037 | mg/kg | 1 | 12/09/21 | 12/09/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 26.4 | 4.8 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Potassium | 1390 | 1200 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Selenium ^a | < 4.8 | 4.8 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Silver ^a | < 1.2 | 1.2 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Sodium | < 1200 | 1200 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Thallium ^a | < 2.4 | 2.4 | mg/kg | 2 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Vanadium | 25.0 | 6.0 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Zinc | 342 | 12 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |

(1) Instrument QC Batch: MA51559

(2) Instrument QC Batch: MA51591

(3) Instrument QC Batch: MA51612

(4) Prep QC Batch: MP30267

(5) Prep QC Batch: MP30281

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-38-7.5-9.5 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-1 | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 86.2 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | 0.38 | 0.25 | mg/kg | 1 | 12/14/21 16:17 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 86.2 | | % | 1 | 12/08/21 16:11 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

4.1

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-38-7.5-9.5 | |
| Lab Sample ID: | JD36272-1A | Date Sampled: 12/06/21 |
| Matrix: | SO - Soil | Date Received: 12/07/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: 86.2 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82237.D | 1 | 12/24/21 23:00 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.00 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.2 | 0.44 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.58 | 0.31 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.58 | 0.29 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.2 | 0.58 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.2 | 0.29 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-38-7.5-9.5 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-1A | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 86.2 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 85% | | 40-140% |
| | 13C5-PFPeA | 84% | | 50-150% |
| | 13C5-PFHxA | 84% | | 50-150% |
| | 13C4-PFHpA | 86% | | 50-150% |
| | 13C8-PFOA | 85% | | 50-150% |
| | 13C9-PFNA | 81% | | 50-150% |
| | 13C6-PFDA | 77% | | 50-150% |
| | 13C7-PFUnDA | 73% | | 40-140% |
| | 13C2-PFDoDA | 80% | | 40-140% |
| | 13C2-PFTeDA | 90% | | 30-130% |
| | 13C3-PFBS | 87% | | 50-150% |
| | 13C3-PFHxS | 88% | | 50-150% |
| | 13C8-PFOS | 84% | | 50-150% |
| | 13C8-FOSA | 72% | | 30-130% |
| | d3-MeFOSAA | 83% | | 40-140% |
| | d5-EtFOSAA | 90% | | 40-140% |
| | 13C2-6:2FTS | 85% | | 50-150% |
| | 13C2-8:2FTS | 83% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-2 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8260D SW846 5035 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3C171892.D | 1 | 12/08/21 15:59 | PS | 12/08/21 08:36 | n/a | V3C7574 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.1 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 10.1 | 11 | 4.5 | ug/kg | J |
| 71-43-2 | Benzene | ND | 0.54 | 0.49 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.4 | 0.61 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.2 | 0.46 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.4 | 1.5 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.4 | 0.83 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 11 | 2.6 | ug/kg | |
| 75-15-0 | Carbon disulfide ^a | ND | 2.2 | 0.58 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 2.2 | 0.67 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.2 | 0.50 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.4 | 0.64 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.2 | 0.56 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.4 | 2.1 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.2 | 0.71 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.2 | 0.75 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.2 | 0.61 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.1 | 0.46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.1 | 0.59 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.1 | 0.54 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.1 | 0.54 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.4 | 0.79 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.1 | 0.54 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.1 | 0.51 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene ^a | ND | 1.1 | 0.71 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.1 | 0.91 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.1 | 0.66 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.2 | 0.51 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.2 | 0.51 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.2 | 0.50 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 1.1 | 0.49 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.4 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.4 | 2.3 | ug/kg | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-39-6.5-8.5 | |
| Lab Sample ID: JD36272-2 | Date Sampled: 12/06/21 |
| Matrix: SO - Soil | Date Received: 12/07/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 90.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 2.2 | 1.5 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 5.4 | 1.5 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 2.2 | 0.95 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.1 | 0.51 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.4 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 5.4 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 2.2 | 0.44 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.2 | 0.65 | ug/kg | |
| 127-18-4 | Tetrachloroethene | ND | 2.2 | 0.63 | ug/kg | |
| 108-88-3 | Toluene | ND | 1.1 | 0.57 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.4 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.4 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.2 | 0.52 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.2 | 0.60 | ug/kg | |
| 79-01-6 | Trichloroethene | ND | 1.1 | 0.83 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.4 | 0.74 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 2.2 | 0.52 | ug/kg | |
| | m,p-Xylene | ND | 1.1 | 0.97 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 1.1 | 0.50 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 1.1 | 0.50 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 104% | | 72-130% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | | 75-131% |
| 2037-26-5 | Toluene-D8 | 108% | | 81-121% |
| 460-00-4 | 4-Bromofluorobenzene | 119% | | 60-141% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Volatile | | 0 | ug/kg | |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-2 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | M177067.D | 5 | 12/17/21 15:16 | JY | 12/08/21 12:05 | OP37036 | EM7612 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------------|--------|------|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 360 | 88 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 890 | 110 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 890 | 150 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 890 | 320 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^b | ND | 890 | 670 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^b | ND | 890 | 190 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 360 | 110 | ug/kg | |
| | 3&4-Methylphenol | ND | 360 | 150 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^b | ND | 890 | 120 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1800 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 720 | 170 | ug/kg | |
| 108-95-2 | Phenol | ND | 360 | 93 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 890 | 120 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 890 | 130 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 890 | 110 | ug/kg | |
| 83-32-9 | Acenaphthene | 258 | 180 | 62 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 180 | 91 | ug/kg | |
| 98-86-2 | Acetophenone ^b | ND | 890 | 38 | ug/kg | |
| 120-12-7 | Anthracene | 604 | 180 | 110 | ug/kg | |
| 1912-24-9 | Atrazine ^b | ND | 360 | 77 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1300 | 180 | 51 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1300 | 180 | 81 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 1780 | 180 | 79 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 670 | 180 | 89 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 610 | 180 | 83 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 360 | 69 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 360 | 44 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 43.5 | 360 | 24 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 890 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 360 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 890 | 64 | ug/kg | |
| 86-74-8 | Carbazole | 271 | 360 | 26 | ug/kg | J |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-2 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|------|-----|-------|---|
| 105-60-2 | Caprolactam ^b | ND | 360 | 71 | ug/kg | |
| 218-01-9 | Chrysene | 1280 | 180 | 56 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 360 | 38 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 360 | 77 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 360 | 64 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 360 | 58 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^b | ND | 180 | 55 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene ^b | ND | 180 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 360 | 150 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 180 | 120 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 250 | 180 | 79 | ug/kg | |
| 132-64-9 | Dibenzofuran | 237 | 360 | 73 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | 126 | 360 | 29 | ug/kg | J |
| 117-84-0 | Di-n-octyl phthalate | ND | 360 | 45 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 360 | 38 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 360 | 32 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 465 | 360 | 42 | ug/kg | |
| 206-44-0 | Fluoranthene | 2900 | 180 | 80 | ug/kg | |
| 86-73-7 | Fluorene | 363 | 180 | 82 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 360 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^b | ND | 180 | 72 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene ^c | ND | 1800 | 71 | ug/kg | |
| 67-72-1 | Hexachloroethane ^b | ND | 890 | 89 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 961 | 180 | 84 | ug/kg | |
| 78-59-1 | Isophorone | ND | 360 | 38 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 167 | 180 | 40 | ug/kg | J |
| 88-74-4 | 2-Nitroaniline ^b | ND | 890 | 42 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 890 | 45 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 890 | 46 | ug/kg | |
| 91-20-3 | Naphthalene | 279 | 180 | 50 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 360 | 69 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^b | ND | 360 | 52 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 890 | 65 | ug/kg | |
| 85-01-8 | Phenanthrene | 2090 | 180 | 60 | ug/kg | |
| 129-00-0 | Pyrene | 2680 | 180 | 57 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 890 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 38% | | 10-109% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-39-6.5-8.5 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-2 | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 90.5 |
| Method: SW846 8270E SW846 3546 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 42% | | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 42% | | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 50% | | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 45% | | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 43% | | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|------------|-------|---|
| | unknown PAH substance | 18.27 | 1100 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 1100 | ug/kg | J |

- (a) Dilution required due to viscosity of the extract matrix.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-2 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8270E BY SIM SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 4M105486.D | 5 | 12/24/21 02:58 | CS | 12/08/21 15:47 | OP37036A | E4M4898 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 18 | 8.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 58% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 52% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 52% | | 17-105% | | |

(a) Dilution required due to viscosity of the extract matrix.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | |
| Lab Sample ID: | JD36272-2 | Date Sampled: 12/06/21 |
| Matrix: | SO - Soil | Date Received: 12/07/21 |
| Method: | SW846 8151A SW846 3546 | Percent Solids: 90.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 3G134529.D | 5 | 12/11/21 01:35 | RK | 12/09/21 09:55 | OP37035 | G3G4907 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.8 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 87 | 39 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 17 | 9.9 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 17 | 8.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|-------------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 126% ^b | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 59% | | 10-125% |

- (a) Dilution required due to viscosity of the extract matrix.
 (b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-2 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 1G172109.D | 1 | 12/16/21 02:34 | CP | 12/09/21 11:25 | OP37039 | G1G5938 |
| Run #2 ^b | 1G172137.D | 5 | 12/16/21 22:46 | TL | 12/09/21 11:25 | OP37039 | G1G5939 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | 16.0 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^c | 1.2 | 0.69 | 0.57 | ug/kg | |
| 319-84-6 | alpha-BHC | ND | 0.69 | 0.56 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.69 | 0.62 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.69 | 0.66 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^c | 3.1 | 0.69 | 0.51 | ug/kg | |
| 5103-71-9 | alpha-Chlordane | ND | 0.69 | 0.56 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.69 | 0.31 | ug/kg | |
| 60-57-1 | Dieldrin | ND | 0.69 | 0.47 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 9.5 | 0.69 | 0.63 | ug/kg | |
| 72-55-9 | 4,4'-DDE | 14.8 | 0.69 | 0.60 | ug/kg | |
| 50-29-3 | 4,4'-DDT | ND | 0.69 | 0.61 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.69 | 0.54 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.69 | 0.54 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.69 | 0.39 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.69 | 0.40 | ug/kg | |
| 33213-65-9 | Endosulfan-II | ND | 0.69 | 0.43 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.69 | 0.59 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.69 | 0.48 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.4 | 0.55 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.69 | 0.50 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 17 | 16 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 75% | 91% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 75% | 84% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 46% | 67% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 121% | 166% | 10-197% |

(a) Had TBA cleanup.

(b) Had TBA cleanup. Confirmation run.

(c) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | |
| Lab Sample ID: | JD36272-2 | Date Sampled: 12/06/21 |
| Matrix: | SO - Soil | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3546 | Percent Solids: 90.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | RK7394.D | 1 | 12/16/21 00:31 | CP | 12/09/21 11:25 | OP37040 | GRK191 |
| Run #2 ^b | RK7355.D | 1 | 12/15/21 03:09 | CP | 12/09/21 11:25 | OP37040 | GRK190 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 16.0 g | 10.0 ml |
| Run #2 | 16.0 g | 10.0 ml |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 34 | 16 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 34 | 21 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 34 | 22 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 34 | 14 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 34 | 31 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 34 | 19 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 34 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 34 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 34 | 23 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 72% | 70% | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 78% | 73% | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 37% | 34% | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 160% | 118% | 10-215% |

(a) Had TBA cleanup.

(b) Had TBA cleanup. Confirmation run.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39-6.5-8.5 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-2 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 90.5 |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 6390 | 55 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Arsenic | 5.2 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Barium | 63.4 | 22 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Beryllium | 0.42 | 0.22 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Cadmium | < 0.55 | 0.55 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Calcium | 43100 | 2800 | mg/kg | 5 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Chromium | 13.1 | 1.1 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Cobalt | 6.1 | 5.5 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Copper | 28.6 | 2.8 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Iron | 12800 | 55 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Lead | 79.4 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Magnesium | 7350 | 550 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Manganese | 202 | 1.7 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Mercury | 0.086 | 0.037 | mg/kg | 1 | 12/09/21 | 12/09/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 23.9 | 4.4 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Potassium | 1250 | 1100 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Silver | 1.1 | 0.55 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Vanadium | 23.8 | 5.5 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Zinc | 68.5 | 11 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA51559
- (2) Instrument QC Batch: MA51591
- (3) Instrument QC Batch: MA51612
- (4) Prep QC Batch: MP30267
- (5) Prep QC Batch: MP30281

RL = Reporting Limit

4.3

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-39-6.5-8.5 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-2 | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 90.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.3

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.32 | 0.32 | mg/kg | 1 | 12/14/21 16:19 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 90.5 | | % | 1 | 12/08/21 16:11 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-39-6.5-8.5 | |
| Lab Sample ID: JD36272-2A | Date Sampled: 12/06/21 |
| Matrix: SO - Soil | Date Received: 12/07/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 90.5 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82238.D | 1 | 12/24/21 23:18 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 1.98 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EiFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-39-6.5-8.5 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-2A | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 90.5 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 96% | | 40-140% |
| | 13C5-PFPeA | 95% | | 50-150% |
| | 13C5-PFHxA | 95% | | 50-150% |
| | 13C4-PFHpA | 96% | | 50-150% |
| | 13C8-PFOA | 96% | | 50-150% |
| | 13C9-PFNA | 95% | | 50-150% |
| | 13C6-PFDA | 90% | | 50-150% |
| | 13C7-PFUnDA | 83% | | 40-140% |
| | 13C2-PFDoDA | 88% | | 40-140% |
| | 13C2-PFTeDA | 98% | | 30-130% |
| | 13C3-PFBS | 97% | | 50-150% |
| | 13C3-PFHxS | 97% | | 50-150% |
| | 13C8-PFOS | 95% | | 50-150% |
| | 13C8-FOSA | 97% | | 30-130% |
| | d3-MeFOSAA | 103% | | 40-140% |
| | d5-EtFOSAA | 109% | | 40-140% |
| | 13C2-6:2FTS | 94% | | 50-150% |
| | 13C2-8:2FTS | 95% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-40-6.0-8.0 | |
| Lab Sample ID: JD36272-3 | Date Sampled: 12/06/21 |
| Matrix: SO - Soil | Date Received: 12/07/21 |
| Method: SW846 8260D SW846 5035 | Percent Solids: 88.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3C171894.D | 1 | 12/08/21 16:50 | PS | 12/08/21 08:36 | n/a | V3C7574 |
| Run #2 | | | | | | | |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.7 g |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone | 19.4 | 9.9 | 4.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 0.50 | 0.45 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.56 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.43 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 1.4 | ug/kg | |
| 74-83-9 | Bromomethane | ND | 5.0 | 0.76 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 9.9 | 2.4 | ug/kg | |
| 75-15-0 | Carbon disulfide ^a | 0.90 | 2.0 | 0.53 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 2.0 | 0.61 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 0.46 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 0.59 | ug/kg | |
| 67-66-3 | Chloroform | ND | 2.0 | 0.52 | ug/kg | |
| 74-87-3 | Chloromethane | ND | 5.0 | 1.9 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 2.0 | 0.65 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.69 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 0.56 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.99 | 0.42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.99 | 0.54 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.99 | 0.49 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.99 | 0.49 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 0.72 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.99 | 0.49 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.99 | 0.47 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethene ^b | ND | 0.99 | 0.65 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.99 | 0.83 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.99 | 0.61 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 0.47 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.47 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.45 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 0.99 | 0.45 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.1 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-40-6.0-8.0 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-3 | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 88.3 |
| Method: SW846 8260D SW846 5035 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

VOA TCL List

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|-------|--------------|-------|----------|
| | unknown | 12.14 | 8 | ug/kg | J |
| | unknown | 12.26 | 7.2 | ug/kg | J |
| | alkane | 12.36 | 11 | ug/kg | J |
| | Total TIC, Volatile | | 123.3 | | J |

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-40-6.0-8.0 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-3 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176925.D | 1 | 12/10/21 22:32 | KLS | 12/08/21 12:05 | OP37036 | EM7605 |
| Run #2 | M177008.D | 10 | 12/13/21 21:47 | KLS | 12/08/21 12:05 | OP37036 | EM7608 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 75 | 18 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 23 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 32 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 67 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 190 | 140 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 190 | 40 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 75 | 24 | ug/kg | |
| | 3&4-Methylphenol | ND | 75 | 31 | ug/kg | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 190 | 25 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 370 | 100 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 150 | 35 | ug/kg | |
| 108-95-2 | Phenol | ND | 75 | 20 | ug/kg | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 190 | 25 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 28 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 22 | ug/kg | |
| 83-32-9 | Acenaphthene | 347 | 37 | 13 | ug/kg | |
| 208-96-8 | Acenaphthylene | 250 | 37 | 19 | ug/kg | |
| 98-86-2 | Acetophenone ^a | ND | 190 | 8.0 | ug/kg | |
| 120-12-7 | Anthracene | 894 | 37 | 23 | ug/kg | |
| 1912-24-9 | Atrazine ^a | ND | 75 | 16 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | 1860 | 37 | 11 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | 1970 | 37 | 17 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | 2490 | 37 | 17 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | 1200 | 37 | 19 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | 904 | 37 | 17 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 75 | 14 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 75 | 9.1 | ug/kg | |
| 92-52-4 | 1,1'-Biphenyl | 40.3 | 75 | 5.1 | ug/kg | J |
| 100-52-7 | Benzaldehyde | ND | 190 | 9.3 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 75 | 8.9 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 190 | 13 | ug/kg | |
| 86-74-8 | Carbazole | 297 | 75 | 5.4 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-40-6.0-8.0 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-3 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.3 |
| Method: | SW846 8270E SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|-------------------|-----|-----|-------|---|
| 105-60-2 | Caprolactam | ND | 75 | 15 | ug/kg | |
| 218-01-9 | Chrysene | 2130 | 37 | 12 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 75 | 8.0 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 75 | 16 | ug/kg | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 75 | 13 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 75 | 12 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 37 | 12 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 37 | 19 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 75 | 31 | ug/kg | |
| 123-91-1 | 1,4-Dioxane | ND | 37 | 25 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | 350 | 37 | 17 | ug/kg | |
| 132-64-9 | Dibenzofuran | 384 | 75 | 15 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 75 | 6.1 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 75 | 9.3 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 75 | 8.0 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 75 | 6.7 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 75 | 8.7 | ug/kg | |
| 206-44-0 | Fluoranthene | 5110 ^b | 370 | 170 | ug/kg | |
| 86-73-7 | Fluorene | 469 | 37 | 17 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 75 | 9.5 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 37 | 15 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 370 | 15 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 19 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1490 | 37 | 18 | ug/kg | |
| 78-59-1 | Isophorone | ND | 75 | 8.0 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 86.3 | 37 | 8.4 | ug/kg | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 190 | 8.8 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 190 | 9.3 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 190 | 9.7 | ug/kg | |
| 91-20-3 | Naphthalene | 265 | 37 | 11 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 75 | 14 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 75 | 11 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 14 | ug/kg | |
| 85-01-8 | Phenanthrene | 4870 ^b | 370 | 130 | ug/kg | |
| 129-00-0 | Pyrene | 5670 ^b | 370 | 120 | ug/kg | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 190 | 9.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 367-12-4 | 2-Fluorophenol | 38% | 42% | 10-109% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-40-6.0-8.0 Lab Sample ID: JD36272-3 Matrix: SO - Soil Method: SW846 8270E SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: 88.3 |
|--|--|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 39% | 38% | 10-105% |
| 118-79-6 | 2,4,6-Tribromophenol | 54% | 67% | 10-135% |
| 4165-60-0 | Nitrobenzene-d5 | 52% | 56% | 10-119% |
| 321-60-8 | 2-Fluorobiphenyl | 46% | 57% | 18-112% |
| 1718-51-0 | Terphenyl-d14 | 46% | 60% | 18-125% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|----------|------------------------------------|-------|--------------|--------------|----------|
| | System artifact/aldol-condensation | 3.26 | 470 | ug/kg | J |
| | Alkane | 6.10 | 270 | ug/kg | J |
| | Alkane | 7.59 | 480 | ug/kg | J |
| | Unknown | 7.78 | 240 | ug/kg | J |
| | Naphthalene trimethyl | 8.35 | 270 | ug/kg | J |
| | Naphthalene trimethyl | 8.48 | 280 | ug/kg | J |
| | Alkane | 9.70 | 660 | ug/kg | J |
| | 9H-Fluorene, methyl- | 9.89 | 210 | ug/kg | J |
| 132-65-0 | Dibenzothiophene | 10.33 | 330 | ug/kg | JN |
| | Phenanthrene methyl | 11.52 | 490 | ug/kg | J |
| | Phenanthrene methyl | 11.57 | 610 | ug/kg | J |
| | Phenanthrene methyl | 11.66 | 230 | ug/kg | J |
| 203-64-5 | 4H-Cyclopenta[def]phenanthrene | 11.71 | 920 | ug/kg | JN |
| | Phenanthrene methyl | 11.77 | 370 | ug/kg | J |
| | Naphthalene, phenyl- | 12.13 | 700 | ug/kg | J |
| | Phenanthrene dimethyl | 12.62 | 370 | ug/kg | J |
| | Unknown | 12.98 | 270 | ug/kg | J |
| | Pyrene methyl | 14.00 | 300 | ug/kg | J |
| | Pyrene methyl | 14.14 | 270 | ug/kg | J |
| | Unknown | 15.28 | 270 | ug/kg | J |
| | Unknown PAH substance | 17.88 | 560 | ug/kg | J |
| | Unknown PAH substance | 18.16 | 1600 | ug/kg | J |
| | Unknown | 19.88 | 420 | ug/kg | J |
| | Unknown PAH substance | 20.25 | 300 | ug/kg | J |
| | Unknown PAH substance | 20.30 | 290 | ug/kg | J |
| | Unknown PAH substance | 20.71 | 410 | ug/kg | J |
| | Total TIC, Semi-Volatile | | 11120 | ug/kg | J |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-40-6.0-8.0 | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-3 | Date Received: 12/07/21 |
| Matrix: SO - Soil | Percent Solids: 88.3 |
| Method: SW846 8270E BY SIM SW846 3546 | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4M105483.D | 1 | 12/24/21 01:57 | CS | 12/08/21 15:47 | OP37036A | E4M4898 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 3.7 | 1.9 | ug/kg | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 59% | | 10-107% | | |
| 321-60-8 | 2-Fluorobiphenyl | 55% | | 17-91% | | |
| 1718-51-0 | Terphenyl-d14 | 60% | | 17-105% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-40-6.0-8.0 Lab Sample ID: JD36272-3 Matrix: SO - Soil Method: SW846 8151A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: 88.3 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3G134532.D | 1 | 12/11/21 02:57 | RK | 12/09/21 09:55 | OP37035 | G3G4907 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.4 g | 5.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-----|-----|-------|---|
| 94-75-7 | 2,4-D | ND | 18 | 8.2 | ug/kg | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 3.7 | 2.1 | ug/kg | |
| 93-76-5 | 2,4,5-T | ND | 3.7 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------------------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 1164% ^a | | 10-125% |
| 19719-28-9 | 2,4-DCAA | 59% | | 10-125% |

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-40-6.0-8.0 | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36272-3 | Date Received: | 12/07/21 |
| Matrix: | SO - Soil | Percent Solids: | 88.3 |
| Method: | SW846 8081B SW846 3546 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 1G172108.D | 1 | 12/16/21 02:16 | CP | 12/09/21 11:25 | OP37039 | G1G5938 |
| Run #2 ^a | 1G172136.D | 5 | 12/16/21 22:28 | TL | 12/09/21 11:25 | OP37039 | G1G5939 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | 15.6 g | 10.0 ml |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------------|--------|------|------|-------|---|
| 309-00-2 | Aldrin ^b | 2.6 | 0.73 | 0.60 | ug/kg | |
| 319-84-6 | alpha-BHC ^b | 0.74 | 0.73 | 0.59 | ug/kg | |
| 319-85-7 | beta-BHC | ND | 0.73 | 0.66 | ug/kg | |
| 319-86-8 | delta-BHC | ND | 0.73 | 0.70 | ug/kg | |
| 58-89-9 | gamma-BHC (Lindane) ^b | 3.1 | 0.73 | 0.54 | ug/kg | |
| 5103-71-9 | alpha-Chlordane ^b | 5.5 | 0.73 | 0.59 | ug/kg | |
| 5103-74-2 | gamma-Chlordane | ND | 0.73 | 0.33 | ug/kg | |
| 60-57-1 | Dieldrin ^b | 2.2 | 0.73 | 0.50 | ug/kg | |
| 72-54-8 | 4,4'-DDD | 49.2 | 0.73 | 0.67 | ug/kg | |
| 72-55-9 | 4,4'-DDE ^b | 12.7 | 0.73 | 0.64 | ug/kg | |
| 50-29-3 | 4,4'-DDT | 10.5 | 0.73 | 0.64 | ug/kg | |
| 72-20-8 | Endrin | ND | 0.73 | 0.56 | ug/kg | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.73 | 0.57 | ug/kg | |
| 7421-93-4 | Endrin aldehyde | ND | 0.73 | 0.41 | ug/kg | |
| 959-98-8 | Endosulfan-I | ND | 0.73 | 0.42 | ug/kg | |
| 33213-65-9 | Endosulfan-II | 5.6 | 0.73 | 0.45 | ug/kg | |
| 76-44-8 | Heptachlor | ND | 0.73 | 0.63 | ug/kg | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.73 | 0.51 | ug/kg | |
| 72-43-5 | Methoxychlor | ND | 1.5 | 0.58 | ug/kg | |
| 53494-70-5 | Endrin ketone | ND | 0.73 | 0.53 | ug/kg | |
| 8001-35-2 | Toxaphene | ND | 18 | 17 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 100% | 105% | 14-145% |
| 877-09-8 | Tetrachloro-m-xylene | 100% | 89% | 14-145% |
| 2051-24-3 | Decachlorobiphenyl | 152% | 129% | 10-197% |
| 2051-24-3 | Decachlorobiphenyl | 403% ^c | 353% ^c | 10-197% |

(a) Confirmation run.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

(c) Outside control limits due to matrix interference.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--|
| Client Sample ID: TT-SB-40-6.0-8.0 Lab Sample ID: JD36272-3 Matrix: SO - Soil Method: SW846 8082A SW846 3546 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: 88.3 |
|--|--|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | RK7393.D | 1 | 12/16/21 00:14 | CP | 12/09/21 11:25 | OP37040 | GRK191 |
| Run #2 ^b | RK7354.D | 1 | 12/15/21 02:53 | CP | 12/09/21 11:25 | OP37040 | GRK190 |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 15.6 g | 10.0 ml |
| Run #2 | 15.6 g | 10.0 ml |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|----|-----|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 36 | 17 | ug/kg | |
| 11104-28-2 | Aroclor 1221 | ND | 36 | 23 | ug/kg | |
| 11141-16-5 | Aroclor 1232 | ND | 36 | 23 | ug/kg | |
| 53469-21-9 | Aroclor 1242 | ND | 36 | 15 | ug/kg | |
| 12672-29-6 | Aroclor 1248 | ND | 36 | 32 | ug/kg | |
| 11097-69-1 | Aroclor 1254 | ND | 36 | 20 | ug/kg | |
| 11096-82-5 | Aroclor 1260 | ND | 36 | 15 | ug/kg | |
| 11100-14-4 | Aroclor 1268 | ND | 36 | 15 | ug/kg | |
| 37324-23-5 | Aroclor 1262 | ND | 36 | 24 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|-------------------|-------------------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 87% | 82% | 10-163% |
| 877-09-8 | Tetrachloro-m-xylene | 92% | 87% | 10-163% |
| 2051-24-3 | Decachlorobiphenyl | 93% | 84% | 10-215% |
| 2051-24-3 | Decachlorobiphenyl | 261% ^c | 240% ^c | 10-215% |

- (a) Had TBA cleanup.
- (b) Had TBA cleanup. Confirmation run.
- (c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--|
| Client Sample ID: TT-SB-40-6.0-8.0 Lab Sample ID: JD36272-3 Matrix: SO - Soil Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: 88.3 |
|---|--|

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 6240 | 54 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Antimony | < 2.2 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Arsenic | 6.4 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Barium | 738 | 22 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Beryllium | 0.37 | 0.22 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Cadmium | 0.64 | 0.54 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Calcium | 34400 | 2700 | mg/kg | 5 | 12/10/21 | 12/15/21 | ND | SW846 6010D ³ SW846 3050B ⁵ |
| Chromium | 18.7 | 1.1 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Cobalt | < 5.4 | 5.4 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Copper | 26.6 | 2.7 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Iron | 11600 | 54 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Lead | 374 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Magnesium | 5560 | 540 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Manganese | 271 | 1.6 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Mercury | 0.11 | 0.033 | mg/kg | 1 | 12/09/21 | 12/09/21 | SB | SW846 7471B ¹ SW846 7471B ⁴ |
| Nickel | 17.2 | 4.4 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Potassium | < 1100 | 1100 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Selenium | < 2.2 | 2.2 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Silver | 1.1 | 0.54 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Sodium | < 1100 | 1100 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Thallium | < 1.1 | 1.1 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Vanadium | 21.3 | 5.4 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |
| Zinc | 455 | 11 | mg/kg | 1 | 12/10/21 | 12/13/21 | ND | SW846 6010D ² SW846 3050B ⁵ |

- (1) Instrument QC Batch: MA51559
- (2) Instrument QC Batch: MA51591
- (3) Instrument QC Batch: MA51612
- (4) Prep QC Batch: MP30267
- (5) Prep QC Batch: MP30281

RL = Reporting Limit

4.5

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-40-6.0-8.0 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-3 | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 88.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------|--------|------|-------|----|----------------|----|----------------------|
| Cyanide | < 0.24 | 0.24 | mg/kg | 1 | 12/14/21 16:20 | EB | SW846 9012B/LACHAT |
| Solids, Percent | 88.3 | | % | 1 | 12/08/21 16:11 | BG | SM2540 G 18TH ED MOD |

RL = Reporting Limit

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-40-6.0-8.0 | |
| Lab Sample ID: JD36272-3A | Date Sampled: 12/06/21 |
| Matrix: SO - Soil | Date Received: 12/07/21 |
| Method: EPA 537M BY ID IN HOUSE | Percent Solids: 88.3 |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82239.D | 1 | 12/24/21 23:37 | AFL | 12/15/21 08:30 | F:OP88849 | F:S2Q1162 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 2.03 g | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|------|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | ND | 1.1 | 0.42 | ug/kg | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-24-4 | Perfluorohexanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-85-9 | Perfluoroheptanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-67-1 | Perfluorooctanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-95-1 | Perfluorononanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-76-2 | Perfluorodecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 307-55-1 | Perfluorododecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 0.56 | 0.30 | ug/kg | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 0.56 | 0.28 | ug/kg | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| 2991-50-6 | EtFOSAA | ND | 1.1 | 0.56 | ug/kg | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 1.1 | 0.28 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



4.6

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-40-6.0-8.0 | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36272-3A | | Date Received: 12/07/21 |
| Matrix: SO - Soil | | Percent Solids: 88.3 |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 99% | | 40-140% |
| | 13C5-PFPeA | 98% | | 50-150% |
| | 13C5-PFHxA | 98% | | 50-150% |
| | 13C4-PFHpA | 99% | | 50-150% |
| | 13C8-PFOA | 99% | | 50-150% |
| | 13C9-PFNA | 96% | | 50-150% |
| | 13C6-PFDA | 91% | | 50-150% |
| | 13C7-PFUnDA | 87% | | 40-140% |
| | 13C2-PFDoDA | 93% | | 40-140% |
| | 13C2-PFTeDA | 102% | | 30-130% |
| | 13C3-PFBS | 98% | | 50-150% |
| | 13C3-PFHxS | 99% | | 50-150% |
| | 13C8-PFOS | 98% | | 50-150% |
| | 13C8-FOSA | 68% | | 30-130% |
| | d3-MeFOSAA | 105% | | 40-140% |
| | d5-EtFOSAA | 108% | | 40-140% |
| | 13C2-6:2FTS | 96% | | 50-150% |
| | 13C2-8:2FTS | 96% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6



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Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD36272

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/7/2021 7:00:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.9); Cooler 3: (3.7); Cooler 4: (3.0); Cooler 5: (3.4); Cooler 6: (2.6); Cooler 7: (2.1); Cooler 8: (2.5); Cooler 9: (2.5); Cooler 10: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (0.6); Cooler 2: (1.5); Cooler 3: (2.3); Cooler 4: (1.6); Cooler 5: (2.0); Cooler 6: (1.2); Cooler 7: (0.7); Cooler 8: (1.1); Cooler 9: (1.1); Cooler 10: (1.2);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smp Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 10 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) |
|--------------------|-----------------|-----------------|------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD36272: Chain of Custody

Page 2 of 4



5.1

JD36272: Chain of Custody
Page 3 of 4

Job Change Order: JD36272

Requested Date: 12/13/2021 **Received Date:** 12/7/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD36272-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD36272: Chain of Custody
Page 4 of 4

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.



SGS Sample Receipt Summary

Job Number: JD36272

Client: SGS NJ

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/9/2021 3:30:00 PM

Delivery Method: FX

Airbill #s: _____

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.2);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | |
| 5. Cooler media | <u>Ice (Bag)</u> | |

Trip Blank Information

Y or N N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W or S</u> | | <u>N/A</u> |
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: STEPHENP

Date: 12/9/2021 3:30:00 PM

Reviewer: _____

Date: _____

JD36272: Chain of Custody

Page 2 of 2



5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD36297

Sampling Dates: 12/06/21 - 12/07/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 133



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Sample Summary

Tetra Tech

Job No: JD36297

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | | |
|------------|----------|-------|----|----------|----|--------------|------------|
| JD36297-1 | 12/06/21 | 08:45 | CB | 12/07/21 | AQ | Ground Water | TT-SB-31GW |
| JD36297-1A | 12/06/21 | 08:45 | CB | 12/07/21 | AQ | Ground Water | TT-SB-31GW |
| JD36297-2 | 12/06/21 | 10:37 | CB | 12/07/21 | AQ | Ground Water | TT-SB-30GW |
| JD36297-2A | 12/06/21 | 10:37 | CB | 12/07/21 | AQ | Ground Water | TT-SB-30GW |
| JD36297-3 | 12/06/21 | 12:01 | CB | 12/07/21 | AQ | Ground Water | TT-SB-27GW |
| JD36297-3A | 12/06/21 | 12:01 | CB | 12/07/21 | AQ | Ground Water | TT-SB-27GW |
| JD36297-4 | 12/06/21 | 13:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-20GW |
| JD36297-4A | 12/06/21 | 13:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-20GW |
| JD36297-5 | 12/06/21 | 15:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-22GW |
| JD36297-5A | 12/06/21 | 15:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-22GW |
| JD36297-6 | 12/07/21 | 08:32 | CB | 12/07/21 | AQ | Ground Water | TT-SB-23GW |
| JD36297-6A | 12/07/21 | 08:32 | CB | 12/07/21 | AQ | Ground Water | TT-SB-23GW |



Sample Summary (continued)

Tetra Tech

Job No: JD36297

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|--------------|------------------|
| | Date | Time By | | Code | Type | |
| JD36297-7 | 12/07/21 | 11:05 CB | 12/07/21 | AQ | Ground Water | TT-SB-12GW |
| JD36297-7A | 12/07/21 | 11:05 CB | 12/07/21 | AQ | Ground Water | TT-SB-12GW |
| JD36297-8 | 12/07/21 | 12:00 CB | 12/07/21 | AQ | Ground Water | GW-DUP-01 |
| JD36297-8A | 12/07/21 | 12:00 CB | 12/07/21 | AQ | Ground Water | GW-DUP-01 |
| JD36297-9 | 12/07/21 | 12:15 CB | 12/07/21 | AQ | Ground Water | TT-SB-18GW |
| JD36297-9A | 12/07/21 | 12:15 CB | 12/07/21 | AQ | Ground Water | TT-SB-18GW |

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD36297

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 1/5/2022 1:06:57 PM

On 12/07/2021, 9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36297 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: VL10097

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD36261-4MS, JD36261-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD36297-1 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-3 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-6 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-3 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-6 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36261-4MS/MSD for 1,2-Dibromo-3-chloropropane: Outside in house control limits.
- JD36297-5 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-6 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- VL10097-BS for 1,2-Dibromo-3-chloropropane: High percent recovery and no associated positive reported in the QC batch.
- JD36297-1 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-4 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-2 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-5 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-7 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-9 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-4 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-3 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-1 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-9 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-8 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-8 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.

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MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: VL10097

- JD36297-8 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD36297-7 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-5 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-4 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-2 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-9 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD36297-7 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD36297-2 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ

Batch ID: F:OP88921

- The data for EPA 537M BY ID meets quality control requirements.
- JD36297-2A: Analysis performed at SGS Orlando, FL.
- JD36297-9A: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD36297-9A: Analysis performed at SGS Orlando, FL.
- JD36297-8A: Analysis performed at SGS Orlando, FL.
- JD36297-8A: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD36297-6A: Analysis performed at SGS Orlando, FL.
- JD36297-1A: Analysis performed at SGS Orlando, FL.
- JD36297-7A: Analysis performed at SGS Orlando, FL.
- JD36297-6A: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD36297-3A: Analysis performed at SGS Orlando, FL.
- JD36297-3A: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD36297-5A: Analysis performed at SGS Orlando, FL.
- JD36297-7A: Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD36297-4A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ

Batch ID: OP37019

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP37019-BSD Recovery(s) for 2,4-Dimethylphenol, 2-Chlorophenol, 2-Methylphenol are outside control limits.
- JD36297-4: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-1: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-8: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-7: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-2: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-6: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-9: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-3: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- JD36297-5: There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- OP37019-BS1 for Nitrobenzene: Outside of in house control limits.
- RPD of OP37019-BSD for Dibenzofuran: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Fluoranthene: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Hexachlorobenzene: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Phenanthrene: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Phenol: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Pyrene: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Anthracene: Analytical precision exceeds in-house control limits.
- OP37019-BS1 for 2-Chlorophenol: Outside of in house control limits.
- RPD of OP37019-BSD for 4-Chlorophenyl phenyl ether: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Di-n-butyl phthalate: Analytical precision exceeds in-house control limits.
- OP37019-BS1 for 2,4-Dimethylphenol: Outside of in house control limits.
- OP37019-BS1 for 2-Methylnaphthalene: Outside of in house control limits.
- OP37019-BS1 for 2-Methylphenol: Outside of in house control limits.
- OP37019-BS1 for 4-Chloro-3-methyl phenol: Outside of in house control limits.
- OP37019-BS1 for 4-Nitroaniline: Outside of in house control limits.
- OP37019-BS1 for Atrazine: Outside of in house control limits.
- OP37019-BS1 for Benzo(a)anthracene: Outside of in house control limits.
- OP37019-BS1 for Benzo(a)pyrene: Outside of in house control limits.
- OP37019-BS1 for bis(2-Chloroethyl)ether: Outside of in house control limits.
- OP37019-BS1 for Acetophenone: Outside of in house control limits.
- OP37019-BS1 for 2,4-Dichlorophenol: Outside of in house control limits.
- OP37019-BS1 for 2,2'-Oxybis(1-chloropropane): Outside of in house control limits.
- OP37019-BS1 for Isophorone: Outside of in house control limits.

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MS Semi-volatiles By Method SW846 8270E

Matrix: AQ

Batch ID: OP37019

- OP37019-BS1 for Naphthalene: Outside of in house control limits.
- RPD of OP37019-BSD for Chrysene: Analytical precision exceeds in-house control limits.
- OP37019-BS1 for Fluorene: Outside of in house control limits.
- OP37019-BS1 for Fluoranthene: Outside of in house control limits.
- OP37019-BS1 for Dibenzofuran: Outside of in house control limits.
- OP37019-BS1 for Chrysene: Outside of in house control limits.
- RPD of OP37019-BSD for bis(2-Ethylhexyl)phthalate: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for 4-Bromophenyl phenyl ether: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Acenaphthylene: Analytical precision exceeds in-house control limits.
- OP37019-BS1 for Carbazole: Outside of in house control limits.
- RPD of OP37019-BSD for Benzo(a)anthracene: Analytical precision exceeds in-house control limits.
- OP37019-BS1 for Phenanthrene: Outside of in house control limits.
- RPD of OP37019-BSD for Butyl benzyl phthalate: Analytical precision exceeds in-house control limits.
- RPD of OP37019-BSD for Caprolactam: Analytical precision exceeds in-house control limits.
- OP37019-BS1 for Acenaphthylene is outside in house control limits.

Matrix: AQ

Batch ID: OP37190

- The data for SW846 8270E meets quality control requirements.
- JD36297-6: Sample extracted outside the holding time. Confirmation run.
- JD36297-7: Sample extracted outside the holding time. Confirmation run.
- JD36297-9: Sample extracted outside the holding time. Confirmation run.
- JD36297-1: Sample extracted outside the holding time. Confirmation run.
- JD36297-3: Sample extracted outside the holding time. Confirmation run.
- JD36297-4: Sample extracted outside the holding time. Confirmation run.
- JD36297-2: Sample extracted outside the holding time. Confirmation run.
- JD36297-8: Sample extracted outside the holding time. Confirmation run.
- JD36297-5: Sample extracted outside the holding time. Confirmation run.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ

Batch ID: OP37019A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP37019A-BS12: Recoveries outside of in house control limits due to incorrect spiking amount. Since BSD12 recoveries within control limits, data are qualified and reported.
- RPD of OP37019A-BSD12 for 1,4-Dioxane: Analytical precision exceeds in-house control limits.
- OP37019A-BS12 for 1,4-Dioxane: Outside of in house control limits.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ

Batch ID: OP37028

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP37028-BS1: Had TBA cleanup.
- OP37028-MB1: Had TBA cleanup.
- JD36297-6: Had TBA cleanup.
- OP37028-BSD: Had TBA cleanup.
- JD36297-8: Had TBA cleanup.
- JD36297-7: Had TBA cleanup.
- OP37028-BS1 for Endosulfan-II: Reported from 2nd signal. 1st signal used for confirmation.
- OP37028-BSD for Endosulfan-II: Reported from 2nd signal. 1st signal used for confirmation.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ

Batch ID: OP37029

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: AQ

Batch ID: OP37027

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010D

Matrix: AQ

Batch ID: MP30296

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36264-2MS, JD36264-2MSD, JD36264-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Cadmium, Chromium, Copper, Iron, Potassium, Thallium are outside control limits for sample MP30296-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD36297-6 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD36297-6 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD36297-8 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD36297-8 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD36297-7 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD36297-7 for Lead: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 7470A

Matrix: AQ

Batch ID: MP30309

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36261-2MS, JD36261-2MSD were used as the QC samples for metals.

Matrix: AQ

Batch ID: MP30311

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36264-2MS, JD36264-2MSD were used as the QC samples for metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD36297

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/30/2021 1:09:33

On 12/07/2021, 9 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36297 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ

Batch ID: OP88921

Sample(s) FA91414-1MS, FA91423-13DUP, FA91414-1MS were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorohexanoic acid, Perfluoropentanoic acid, Perfluorobutanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for Duplicate for Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits for sample OP88921-DUP. Probable cause is due to sample non-homogeneity.

Sample(s) JD36297-3A, JD36297-6A, JD36297-7A, JD36297-8A, JD36297-9A have surrogates outside control limits.

OP88921-DUP for 13C2-PFTeDA: Outside control limits.

JD36297-3A for 13C8-FOSA: Outside control limits.

JD36297-3A: Dilution required due to matrix interference (ID recovery standard failure).

JD36297-6A for 13C8-FOSA: Outside control limits.

JD36297-6A: Dilution required due to matrix interference (ID recovery standard failure).

JD36297-7A for 13C8-FOSA: Outside control limits.

JD36297-7A: Dilution required due to matrix interference (ID recovery standard failure).

JD36297-8A for 13C8-FOSA: Outside control limits.

JD36297-8A: Dilution required due to matrix interference (ID recovery standard failure).

JD36297-9A for 13C8-FOSA: Outside control limits.

JD36297-9A: Dilution required due to matrix interference (ID recovery standard failure).

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD36297
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36297-1 TT-SB-31GW

| | | | | | |
|-------------------------------------|--------|-------|------|------|-------------|
| Acetone | 7.1 J | 10 | 3.1 | ug/l | SW846 8260D |
| Acenaphthene ^a | 0.26 J | 1.0 | 0.20 | ug/l | SW846 8270E |
| Benzo(a)anthracene ^a | 0.47 J | 1.0 | 0.21 | ug/l | SW846 8270E |
| Benzo(a)pyrene ^a | 1.1 | 1.0 | 0.22 | ug/l | SW846 8270E |
| Benzo(b)fluoranthene ^a | 0.61 J | 1.0 | 0.21 | ug/l | SW846 8270E |
| Benzo(g,h,i)perylene ^a | 0.41 J | 1.0 | 0.35 | ug/l | SW846 8270E |
| Benzo(k)fluoranthene ^a | 0.21 J | 1.0 | 0.21 | ug/l | SW846 8270E |
| Chrysene ^a | 0.37 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Dibenzo(a,h)anthracene ^a | 0.69 J | 1.0 | 0.34 | ug/l | SW846 8270E |
| Fluoranthene ^a | 0.70 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Fluorene ^a | 0.21 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Indeno(1,2,3-cd)pyrene ^a | 1.1 | 1.0 | 0.34 | ug/l | SW846 8270E |
| Phenanthrene ^a | 0.63 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Pyrene ^a | 0.70 J | 1.0 | 0.23 | ug/l | SW846 8270E |
| Aluminum | 1280 | 200 | | ug/l | SW846 6010D |
| Arsenic | 3.2 | 3.0 | | ug/l | SW846 6010D |
| Calcium | 118000 | 5000 | | ug/l | SW846 6010D |
| Iron | 1940 | 100 | | ug/l | SW846 6010D |
| Lead | 12.1 | 3.0 | | ug/l | SW846 6010D |
| Magnesium | 8100 | 5000 | | ug/l | SW846 6010D |
| Manganese | 463 | 15 | | ug/l | SW846 6010D |
| Potassium | 12000 | 10000 | | ug/l | SW846 6010D |
| Sodium | 166000 | 10000 | | ug/l | SW846 6010D |

JD36297-1A TT-SB-31GW

| | | | | | |
|---|-------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | 16.5 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | 5.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | 11.2 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | 3.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | 13.5 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorononanoic acid ^b | 2.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorodecanoic acid ^b | 2.1 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^b | 2.8 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanesulfonic acid ^b | 1.2 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^b | 28.5 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

JD36297-2 TT-SB-30GW

| | | | | | |
|-------------------------------------|--------|-----|------|------|-------------|
| Indeno(1,2,3-cd)pyrene ^a | 0.73 J | 1.0 | 0.34 | ug/l | SW846 8270E |
| Aluminum | 3950 | 200 | | ug/l | SW846 6010D |
| Arsenic | 9.4 | 3.0 | | ug/l | SW846 6010D |
| Beryllium | 1.1 | 1.0 | | ug/l | SW846 6010D |

Summary of Hits

Job Number: JD36297
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|--------------------|----|-----|-------|--------|
|---------------|------------------|--------------------|----|-----|-------|--------|

| | | | | | | |
|-----------|--|--------|-------|--|------|-------------|
| Cadmium | | 3.0 | 3.0 | | ug/l | SW846 6010D |
| Calcium | | 155000 | 5000 | | ug/l | SW846 6010D |
| Copper | | 45.8 | 10 | | ug/l | SW846 6010D |
| Iron | | 10100 | 100 | | ug/l | SW846 6010D |
| Lead | | 26.6 | 3.0 | | ug/l | SW846 6010D |
| Magnesium | | 52000 | 5000 | | ug/l | SW846 6010D |
| Manganese | | 2770 | 15 | | ug/l | SW846 6010D |
| Nickel | | 15.1 | 10 | | ug/l | SW846 6010D |
| Potassium | | 11500 | 10000 | | ug/l | SW846 6010D |
| Sodium | | 494000 | 50000 | | ug/l | SW846 6010D |
| Zinc | | 53.7 | 20 | | ug/l | SW846 6010D |

JD36297-2A TT-SB-30GW

| | | | | | | |
|---|--|-------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | | 13.9 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | | 10.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | | 6.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | | 3.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | | 12.7 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^b | | 1.0 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

JD36297-3 TT-SB-27GW

| | | | | | | |
|---------------------------|--|--------|-------|------|------|-------------|
| Phenanthrene ^a | | 0.26 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Aluminum | | 5230 | 200 | | ug/l | SW846 6010D |
| Arsenic | | 8.7 | 3.0 | | ug/l | SW846 6010D |
| Barium | | 422 | 200 | | ug/l | SW846 6010D |
| Calcium | | 259000 | 25000 | | ug/l | SW846 6010D |
| Chromium | | 11.7 | 10 | | ug/l | SW846 6010D |
| Copper | | 22.6 | 10 | | ug/l | SW846 6010D |
| Iron | | 10600 | 100 | | ug/l | SW846 6010D |
| Lead | | 73.5 | 3.0 | | ug/l | SW846 6010D |
| Magnesium | | 38100 | 5000 | | ug/l | SW846 6010D |
| Manganese | | 2150 | 15 | | ug/l | SW846 6010D |
| Nickel | | 21.0 | 10 | | ug/l | SW846 6010D |
| Potassium | | 19900 | 10000 | | ug/l | SW846 6010D |
| Sodium | | 201000 | 50000 | | ug/l | SW846 6010D |
| Zinc | | 48.9 | 20 | | ug/l | SW846 6010D |

JD36297-3A TT-SB-27GW

| | | | | | | |
|--------------------------------------|--|------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | | 11.4 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | | 8.8 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | | 7.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | | 6.0 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

Summary of Hits

Job Number: JD36297
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | |
|---|-------|-----|------|------|----------------|
| Perfluorooctanoic acid ^b | 17.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorononanoic acid ^b | 2.5 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^b | 2.1 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanesulfonic acid ^b | 1.1 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^b | 29.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

JD36297-4 TT-SB-20GW

| | | | | | |
|-----------|-------|-------|--|------|-------------|
| Aluminum | 25600 | 200 | | ug/l | SW846 6010D |
| Antimony | 6.2 | 6.0 | | ug/l | SW846 6010D |
| Arsenic | 25.2 | 3.0 | | ug/l | SW846 6010D |
| Barium | 474 | 200 | | ug/l | SW846 6010D |
| Beryllium | 2.2 | 1.0 | | ug/l | SW846 6010D |
| Cadmium | 6.2 | 3.0 | | ug/l | SW846 6010D |
| Calcium | 72600 | 5000 | | ug/l | SW846 6010D |
| Chromium | 56.0 | 10 | | ug/l | SW846 6010D |
| Copper | 93.0 | 10 | | ug/l | SW846 6010D |
| Iron | 42500 | 100 | | ug/l | SW846 6010D |
| Lead | 253 | 15 | | ug/l | SW846 6010D |
| Magnesium | 25000 | 5000 | | ug/l | SW846 6010D |
| Manganese | 4550 | 15 | | ug/l | SW846 6010D |
| Nickel | 85.2 | 10 | | ug/l | SW846 6010D |
| Potassium | 16700 | 10000 | | ug/l | SW846 6010D |
| Sodium | 88100 | 10000 | | ug/l | SW846 6010D |
| Vanadium | 77.9 | 50 | | ug/l | SW846 6010D |
| Zinc | 416 | 20 | | ug/l | SW846 6010D |

JD36297-4A TT-SB-20GW

| | | | | | |
|---|-------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | 3.7 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | 1.7 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | 12.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorononanoic acid ^b | 2.8 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^b | 1.0 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^b | 8.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

JD36297-5 TT-SB-22GW

| | | | | | |
|----------------------------------|--------|------|------|------|-------------|
| Acetone | 16.6 | 10 | 3.1 | ug/l | SW846 8260D |
| Benzo(a)pyrene ^a | 0.68 J | 1.0 | 0.22 | ug/l | SW846 8270E |
| 2-Methylnaphthalene ^a | 1.0 | 1.0 | 0.21 | ug/l | SW846 8270E |
| Naphthalene ^a | 1.1 | 1.0 | 0.24 | ug/l | SW846 8270E |
| Aluminum | 7540 | 200 | | ug/l | SW846 6010D |
| Arsenic | 9.6 | 3.0 | | ug/l | SW846 6010D |
| Calcium | 44100 | 5000 | | ug/l | SW846 6010D |

Summary of Hits

Job Number: JD36297
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|-----------------------|------------------|---|----------|-------|-------|-------------------------|
| | | Chromium | 11.9 | 10 | ug/l | SW846 6010D |
| | | Copper | 17.7 | 10 | ug/l | SW846 6010D |
| | | Iron | 10000 | 100 | ug/l | SW846 6010D |
| | | Lead | 20.3 | 3.0 | ug/l | SW846 6010D |
| | | Magnesium | 5430 | 5000 | ug/l | SW846 6010D |
| | | Manganese | 297 | 15 | ug/l | SW846 6010D |
| | | Nickel | 11.2 | 10 | ug/l | SW846 6010D |
| | | Sodium | 16000 | 10000 | ug/l | SW846 6010D |
| | | Zinc | 56.8 | 20 | ug/l | SW846 6010D |
| JD36297-5A TT-SB-22GW | | | | | | |
| | | Perfluorobutanoic acid ^b | 12.7 | 3.7 | 1.9 | ng/l EPA 537M BY ID |
| | | Perfluoropentanoic acid ^b | 7.4 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluorohexanoic acid ^b | 6.1 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluoroheptanoic acid ^b | 3.7 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluorooctanoic acid ^b | 19.2 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluorononanoic acid ^b | 2.8 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluorodecanoic acid ^b | 2.8 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluoroundecanoic acid ^b | 1.9 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluorododecanoic acid ^b | 1.1 J | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| | | Perfluorooctanesulfonic acid ^b | 15.4 | 1.9 | 0.93 | ng/l EPA 537M BY ID |
| JD36297-6 TT-SB-23GW | | | | | | |
| | | Acetone | 7.6 J | 10 | 3.1 | ug/l SW846 8260D |
| | | Benzene | 0.55 | 0.50 | 0.43 | ug/l SW846 8260D |
| | | 1,4-Dioxane | 0.0537 J | 0.10 | 0.052 | ug/l SW846 8270E BY SIM |
| | | Total TIC, Semi-Volatile | 6.4 J | | | ug/l |
| | | Aluminum | 70900 | 200 | | ug/l SW846 6010D |
| | | Arsenic ^c | 66.6 | 15 | | ug/l SW846 6010D |
| | | Barium | 1390 | 200 | | ug/l SW846 6010D |
| | | Beryllium ^c | 7.1 | 5.0 | | ug/l SW846 6010D |
| | | Calcium | 318000 | 25000 | | ug/l SW846 6010D |
| | | Chromium | 140 | 10 | | ug/l SW846 6010D |
| | | Cobalt | 98.4 | 50 | | ug/l SW846 6010D |
| | | Copper ^c | 233 | 50 | | ug/l SW846 6010D |
| | | Iron | 376000 | 500 | | ug/l SW846 6010D |
| | | Lead ^c | 258 | 15 | | ug/l SW846 6010D |
| | | Magnesium | 86600 | 5000 | | ug/l SW846 6010D |
| | | Manganese ^c | 10700 | 75 | | ug/l SW846 6010D |
| | | Mercury | 0.80 | 0.60 | | ug/l SW846 7470A |
| | | Nickel | 206 | 10 | | ug/l SW846 6010D |
| | | Potassium | 38500 | 10000 | | ug/l SW846 6010D |
| | | Sodium | 170000 | 10000 | | ug/l SW846 6010D |

Summary of Hits

Job Number: JD36297
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | | |
|----------|--|-----|----|--|------|-------------|
| Vanadium | | 209 | 50 | | ug/l | SW846 6010D |
| Zinc | | 501 | 20 | | ug/l | SW846 6010D |

JD36297-6A TT-SB-23GW

| | | | | | |
|---|-------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | 9.4 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | 5.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | 5.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | 11.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | 111 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorononanoic acid ^b | 1.1 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^b | 4.1 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanesulfonic acid ^b | 2.2 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^b | 3.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

JD36297-7 TT-SB-12GW

| | | | | | |
|---------------------------|----------|--------|-------|------|--------------------|
| Benzene | 0.73 | 0.50 | 0.43 | ug/l | SW846 8260D |
| Acenaphthene ^a | 1.2 | 1.0 | 0.19 | ug/l | SW846 8270E |
| Dibenzofuran ^a | 0.39 J | 5.1 | 0.22 | ug/l | SW846 8270E |
| Fluoranthene ^a | 0.23 J | 1.0 | 0.17 | ug/l | SW846 8270E |
| Fluorene ^a | 0.18 J | 1.0 | 0.17 | ug/l | SW846 8270E |
| Naphthalene ^a | 1.0 | 1.0 | 0.24 | ug/l | SW846 8270E |
| Phenanthrene ^a | 0.54 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| 1,4-Dioxane | 0.0615 J | 0.10 | 0.051 | ug/l | SW846 8270E BY SIM |
| Total TIC, Semi-Volatile | 74 J | | | ug/l | |
| Beryllium | 2.0 | 1.0 | | ug/l | SW846 6010D |
| Calcium | 210000 | 25000 | | ug/l | SW846 6010D |
| Iron | 806 | 100 | | ug/l | SW846 6010D |
| Magnesium | 276000 | 5000 | | ug/l | SW846 6010D |
| Manganese | 27.6 | 15 | | ug/l | SW846 6010D |
| Potassium | 189000 | 10000 | | ug/l | SW846 6010D |
| Sodium | 3760000 | 500000 | | ug/l | SW846 6010D |
| Zinc | 39.5 | 20 | | ug/l | SW846 6010D |

JD36297-7A TT-SB-12GW

| | | | | | |
|---|--------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | 5.4 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | 1.7 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | 2.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | 4.3 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | 26.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorononanoic acid ^b | 0.96 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^b | 11.6 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| EtFOSAA ^b | 2.7 J | 3.7 | 1.9 | ng/l | EPA 537M BY ID |

Summary of Hits

Job Number: JD36297
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36297-8 GW-DUP-01

| | | | | | |
|---------------------------|---------|--------|------|------|-------------|
| Benzene | 0.74 | 0.50 | 0.43 | ug/l | SW846 8260D |
| Carbon disulfide | 0.46 J | 2.0 | 0.46 | ug/l | SW846 8260D |
| Total TIC, Volatile | 9.2 J | | | ug/l | |
| Acenaphthene ^a | 1.1 | 1.0 | 0.20 | ug/l | SW846 8270E |
| Dibenzofuran ^a | 0.36 J | 5.2 | 0.23 | ug/l | SW846 8270E |
| Naphthalene ^a | 0.89 J | 1.0 | 0.24 | ug/l | SW846 8270E |
| Phenanthrene ^a | 0.52 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Total TIC, Semi-Volatile | 27 J | | | ug/l | |
| Beryllium | 2.0 | 1.0 | | ug/l | SW846 6010D |
| Calcium | 219000 | 25000 | | ug/l | SW846 6010D |
| Iron | 275 | 100 | | ug/l | SW846 6010D |
| Magnesium | 283000 | 5000 | | ug/l | SW846 6010D |
| Manganese | 20.5 | 15 | | ug/l | SW846 6010D |
| Potassium | 193000 | 10000 | | ug/l | SW846 6010D |
| Sodium | 4010000 | 500000 | | ug/l | SW846 6010D |

JD36297-8A GW-DUP-01

| | | | | | |
|---|-------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | 4.6 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | 1.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | 2.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | 3.7 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | 26.8 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorononanoic acid ^b | 1.0 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^b | 12.0 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| EtFOSAA ^b | 3.3 J | 3.7 | 1.9 | ng/l | EPA 537M BY ID |

JD36297-9 TT-SB-18GW

| | | | | | |
|------------------|--------|-----|------|------|-------------|
| Carbon disulfide | 0.47 J | 2.0 | 0.46 | ug/l | SW846 8260D |
|------------------|--------|-----|------|------|-------------|

JD36297-9A TT-SB-18GW

| | | | | | |
|---|------|-----|------|------|----------------|
| Perfluorobutanoic acid ^b | 7.5 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^b | 2.2 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^b | 2.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^b | 4.1 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^b | 33.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^b | 2.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

(a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.

Summary of Hits

Job Number: JD36297
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/06/21 thru 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

- (b) Analysis performed at SGS Orlando, FL.
- (c) Elevated detection limit due to dilution required for high interfering element.



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Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335790.D | 1 | 12/10/21 05:35 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | 7.1 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 104% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.57 | 36 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146514.D | 1 | 12/12/21 16:31 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146662.D | 1 | 12/18/21 08:33 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | 960 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.2 | 0.85 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.2 | 0.92 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.1 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.2 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.2 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.2 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.1 | 0.92 | ug/l | |
| | 3&4-Methylphenol | ND | 2.1 | 0.91 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.2 | 0.99 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.1 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.2 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.2 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.2 | 0.95 | ug/l | |
| 83-32-9 | Acenaphthene | 0.26 | 1.0 | 0.20 | ug/l | J |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.1 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.1 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.2 | 0.30 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | 0.47 | 1.0 | 0.21 | ug/l | J |
| 50-32-8 | Benzo(a)pyrene | 1.1 | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | 0.61 | 1.0 | 0.21 | ug/l | J |
| 191-24-2 | Benzo(g,h,i)perylene | 0.41 | 1.0 | 0.35 | ug/l | J |
| 207-08-9 | Benzo(k)fluoranthene | 0.21 | 1.0 | 0.21 | ug/l | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.1 | 0.42 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.1 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.1 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.2 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.24 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.1 | 0.67 | ug/l | |
| 218-01-9 | Chrysene | 0.37 | 1.0 | 0.18 | ug/l | J |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.1 | 0.29 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.1 | 0.26 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.1 | 0.42 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.1 | 0.38 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.57 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.1 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.68 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.69 | 1.0 | 0.34 | ug/l | J |
| 132-64-9 | Dibenzofuran | ND | 5.2 | 0.23 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.1 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.1 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.1 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.1 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.1 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | 0.70 | 1.0 | 0.18 | ug/l | J |
| 86-73-7 | Fluorene | 0.21 | 1.0 | 0.18 | ug/l | J |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.34 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.51 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.9 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.1 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.1 | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.1 | 0.29 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.22 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.2 | 0.29 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.2 | 0.40 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.2 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.1 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.1 | 0.50 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.2 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | 0.63 | 1.0 | 0.18 | ug/l | J |
| 129-00-0 | Pyrene | 0.70 | 1.0 | 0.23 | ug/l | J |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.1 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 17% | 29% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-31GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-1 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 13% | 20% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 54% | 92% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 52% | 79% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 53% | 81% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 29% | 53% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | System artifact | 2.75 | 5.3 | ug/l | J |
| | System artifact | 3.03 | 5 | ug/l | J |
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-31GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-1 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8270E BY SIM SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105100.D | 1 | 12/14/21 18:14 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.052 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 80% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 79% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 42% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|---|
| Client Sample ID: TT-SB-31GW Lab Sample ID: JD36297-1 Matrix: AQ - Ground Water Method: SW846 8151A SW846 3510C Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: n/a |
|---|---|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155596.D | 1 | 12/16/21 05:32 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 245 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.41 | 0.081 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.082 | 0.051 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.082 | 0.016 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 75% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 95% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-31GW | |
| Lab Sample ID: JD36297-1 | Date Sampled: 12/06/21 |
| Matrix: AQ - Ground Water | Date Received: 12/07/21 |
| Method: SW846 8081B SW846 3510C | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6G81140.D | 1 | 12/13/21 21:33 | TL | 12/09/21 16:45 | OP37028 | G6G2869 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|--------|--------|-------|---|
| 309-00-2 | Aldrin | ND | 0.0080 | 0.0041 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.0080 | 0.0042 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.0080 | 0.0064 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.0080 | 0.0053 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.0080 | 0.0048 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.0080 | 0.0039 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.0080 | 0.0034 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.0080 | 0.0061 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.0080 | 0.0046 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.0080 | 0.0040 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.0080 | 0.0055 | ug/l | |
| 72-20-8 | Endrin | ND | 0.0080 | 0.0048 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.0080 | 0.0044 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.0080 | 0.0054 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.0080 | 0.0050 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.0080 | 0.0042 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.0080 | 0.0039 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.0080 | 0.0036 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.0080 | 0.0048 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.016 | 0.0054 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.20 | 0.13 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 87% | | 10-190% |
| 877-09-8 | Tetrachloro-m-xylene | 84% | | 10-190% |
| 2051-24-3 | Decachlorobiphenyl | 36% | | 10-156% |
| 2051-24-3 | Decachlorobiphenyl | 45% | | 10-156% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-31GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 1280 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Arsenic | 3.2 | 3.0 | ug/l | 1 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Barium | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Beryllium | < 1.0 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Calcium | 118000 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Copper | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Iron | 1940 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Lead | 12.1 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Magnesium | 8100 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Manganese | 463 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/10/21 | 12/10/21 | SB SW846 7470A ¹ | SW846 7470A ⁵ |
| Nickel | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Potassium | 12000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Sodium | 166000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Zinc | < 20 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |

(1) Instrument QC Batch: MA51573

(2) Instrument QC Batch: MA51610

(3) Instrument QC Batch: MA51617

(4) Prep QC Batch: MP30296

(5) Prep QC Batch: MP30309

RL = Reporting Limit

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-31GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-1A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 90% | | 35-135% |
| | 13C5-PFPeA | 84% | | 50-150% |
| | 13C5-PFHxA | 81% | | 50-150% |
| | 13C4-PFHpA | 83% | | 50-150% |
| | 13C8-PFOA | 88% | | 50-150% |
| | 13C9-PFNA | 89% | | 50-150% |
| | 13C6-PFDA | 92% | | 50-150% |
| | 13C7-PFUnDA | 94% | | 40-140% |
| | 13C2-PFDoDA | 84% | | 40-140% |
| | 13C2-PFTeDA | 79% | | 30-130% |
| | 13C3-PFBS | 88% | | 50-150% |
| | 13C3-PFHxS | 88% | | 50-150% |
| | 13C8-PFOS | 93% | | 50-150% |
| | 13C8-FOSA | 35% | | 30-130% |
| | d3-MeFOSAA | 109% | | 40-140% |
| | d5-EtFOSAA | 114% | | 40-140% |
| | 13C2-6:2FTS | 95% | | 50-150% |
| | 13C2-8:2FTS | 100% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-2 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335791.D | 1 | 12/10/21 05:56 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-30GW | |
| Lab Sample ID: | JD36297-2 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8260D | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.56 | 86 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-2 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146515.D | 1 | 12/12/21 16:56 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146663.D | 1 | 12/18/21 08:58 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | 950 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-2 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.0 | 0.66 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | 0.28 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | 0.25 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.0 | 0.41 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.37 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.56 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.0 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.67 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.1 | 0.22 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.17 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.17 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.33 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.50 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.8 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.0 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.73 | 1.0 | 0.34 | ug/l | J |
| 78-59-1 | Isophorone | ND | 2.0 | 0.28 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.21 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | 0.28 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | 0.39 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | 0.49 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.0 | 0.18 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.0 | 0.22 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 19% | 26% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-30GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-2 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 13% | 18% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 67% | 76% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 51% | 68% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 55% | 71% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 34% | 38% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-30GW | |
| Lab Sample ID: | JD36297-2 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E BY SIM SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105101.D | 1 | 12/14/21 18:34 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.051 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 80% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 81% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 50% | | 25-118% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-30GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-2 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155597.D | 1 | 12/16/21 06:04 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.40 | 0.080 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.080 | 0.050 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.080 | 0.015 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 83% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 95% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-30GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-2 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8082A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475662.D | 1 | 12/13/21 08:03 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 240 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.42 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.42 | 0.35 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.42 | 0.22 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.42 | 0.19 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.42 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.42 | 0.34 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.42 | 0.13 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.42 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.42 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 73% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 68% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 40% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 35% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-30GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-2 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 3950 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Arsenic | 9.4 | 3.0 | ug/l | 1 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Barium | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Beryllium | 1.1 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cadmium | 3.0 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Calcium | 155000 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Copper | 45.8 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Iron | 10100 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Lead | 26.6 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Magnesium | 52000 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Manganese | 2770 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/10/21 | 12/10/21 | SB SW846 7470A ¹ | SW846 7470A ⁵ |
| Nickel | 15.1 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Potassium | 11500 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Sodium | 494000 | 50000 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Zinc | 53.7 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |

- (1) Instrument QC Batch: MA51573
- (2) Instrument QC Batch: MA51610
- (3) Instrument QC Batch: MA51617
- (4) Prep QC Batch: MP30296
- (5) Prep QC Batch: MP30309

RL = Reporting Limit

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-30GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-2A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82363.D | 1 | 12/28/21 04:36 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|-----|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 13.9 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 10.6 | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 6.4 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 3.9 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 12.7 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 1.0 | 1.9 | 0.93 | ng/l | J |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 3.7 | 1.9 | ng/l | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-30GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-2A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 83% | | 35-135% |
| | 13C5-PFPeA | 78% | | 50-150% |
| | 13C5-PFHxA | 74% | | 50-150% |
| | 13C4-PFHpA | 78% | | 50-150% |
| | 13C8-PFOA | 82% | | 50-150% |
| | 13C9-PFNA | 83% | | 50-150% |
| | 13C6-PFDA | 93% | | 50-150% |
| | 13C7-PFUnDA | 82% | | 40-140% |
| | 13C2-PFDoDA | 64% | | 40-140% |
| | 13C2-PFTeDA | 51% | | 30-130% |
| | 13C3-PFBS | 83% | | 50-150% |
| | 13C3-PFHxS | 83% | | 50-150% |
| | 13C8-PFOS | 85% | | 50-150% |
| | 13C8-FOSA | 33% | | 30-130% |
| | d3-MeFOSAA | 101% | | 40-140% |
| | d5-EtFOSAA | 96% | | 40-140% |
| | 13C2-6:2FTS | 90% | | 50-150% |
| | 13C2-8:2FTS | 95% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335792.D | 1 | 12/10/21 06:17 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 108% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.57 | 62 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146516.D | 1 | 12/12/21 17:22 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146664.D | 1 | 12/18/21 09:23 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | 970 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.0 | 0.66 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | 0.28 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | 0.25 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.0 | 0.41 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.37 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.56 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.0 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.67 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.1 | 0.22 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.17 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.17 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.33 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.50 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.8 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.0 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.0 | 0.28 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.21 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | 0.28 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | 0.39 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | 0.49 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | 0.26 | 1.0 | 0.18 | ug/l | J |
| 129-00-0 | Pyrene | ND | 1.0 | 0.22 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 15% | 34% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-27GW | |
| Lab Sample ID: | JD36297-3 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 11% | 22% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 54% | 87% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 44% | 70% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 45% | 76% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 27% | 76% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-27GW | |
| Lab Sample ID: | JD36297-3 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E BY SIM SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105102.D | 1 | 12/14/21 18:55 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.051 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 66% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 41% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-27GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-3 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155598.D | 1 | 12/16/21 06:35 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 240 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.42 | 0.083 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.083 | 0.052 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.083 | 0.016 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 102% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 106% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-27GW | |
| Lab Sample ID: | JD36297-3 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475663.D | 1 | 12/13/21 08:20 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 260 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|-------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.38 | 0.15 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.38 | 0.32 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.38 | 0.20 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.38 | 0.18 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.38 | 0.097 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.38 | 0.32 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.38 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.38 | 0.13 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.38 | 0.15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 82% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 80% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 42% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 37% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 5230 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Arsenic | 8.7 | 3.0 | ug/l | 1 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Barium | 422 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Beryllium | < 1.0 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Calcium | 259000 | 25000 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Chromium | 11.7 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Copper | 22.6 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Iron | 10600 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Lead | 73.5 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Magnesium | 38100 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Manganese | 2150 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/10/21 | 12/10/21 | SB SW846 7470A ¹ | SW846 7470A ⁵ |
| Nickel | 21.0 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Potassium | 19900 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Sodium | 201000 | 50000 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Zinc | 48.9 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |

(1) Instrument QC Batch: MA51573

(2) Instrument QC Batch: MA51610

(3) Instrument QC Batch: MA51617

(4) Prep QC Batch: MP30296

(5) Prep QC Batch: MP30309

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-27GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-3A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82364.D | 1 | 12/28/21 04:55 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 ^b | 2Q82429.D | 5 | 12/29/21 01:12 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1165 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | 270 ml | 1.0 ml |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|-----------------|-----|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 11.4 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 8.8 | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 7.6 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 6.0 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 17.4 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 2.5 | 1.9 | 0.93 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 2.1 | 1.9 | 0.93 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 1.1 | 1.9 | 0.93 | ng/l | J |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 29.6 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND ^c | 19 | 9.3 | ng/l | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-27GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-3A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|------------------|--------|---------|
| | 13C4-PFBA | 94% | 81% | 35-135% |
| | 13C5-PFPeA | 91% | 79% | 50-150% |
| | 13C5-PFHxA | 90% | 80% | 50-150% |
| | 13C4-PFHpA | 92% | 80% | 50-150% |
| | 13C8-PFOA | 95% | 82% | 50-150% |
| | 13C9-PFNA | 93% | 82% | 50-150% |
| | 13C6-PFDA | 99% | 78% | 50-150% |
| | 13C7-PFUnDA | 87% | 71% | 40-140% |
| | 13C2-PFDoDA | 73% | 61% | 40-140% |
| | 13C2-PFTeDA | 63% | 50% | 30-130% |
| | 13C3-PFBS | 92% | 80% | 50-150% |
| | 13C3-PFHxS | 95% | 78% | 50-150% |
| | 13C8-PFOS | 95% | 80% | 50-150% |
| | 13C8-FOSA | 29% ^d | 34% | 30-130% |
| | d3-MeFOSAA | 110% | 78% | 40-140% |
| | d5-EtFOSAA | 97% | 68% | 40-140% |
| | 13C2-6:2FTS | 100% | 82% | 50-150% |
| | 13C2-8:2FTS | 97% | 67% | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.

(c) Result is from Run# 2

(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-4 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335793.D | 1 | 12/10/21 06:38 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20GW | |
| Lab Sample ID: | JD36297-4 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8260D | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 95% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.57 | 50 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-4 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146517.D | 1 | 12/12/21 17:48 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146665.D | 1 | 12/18/21 09:47 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | 980 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-4 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.0 | 0.66 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | 0.28 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | 0.25 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.0 | 0.41 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.37 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.56 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.0 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.67 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.1 | 0.22 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.17 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.17 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.33 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.50 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.8 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.0 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.0 | 0.28 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.21 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | 0.28 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | 0.39 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | 0.49 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.0 | 0.18 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.0 | 0.22 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 17% | 38% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-20GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-4 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 13% | 24% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 48% | 92% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 50% | 78% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 53% | 83% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 24% | 64% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20GW | |
| Lab Sample ID: | JD36297-4 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E BY SIM SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105103.D | 1 | 12/14/21 19:15 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.051 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 78% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 79% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 33% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-20GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-4 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155599.D | 1 | 12/16/21 07:08 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.40 | 0.080 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.080 | 0.050 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.080 | 0.015 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 94% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 96% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-20GW | |
| Lab Sample ID: | JD36297-4 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475664.D | 1 | 12/13/21 08:38 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 245 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.41 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.41 | 0.34 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.41 | 0.21 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.41 | 0.19 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.41 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.41 | 0.34 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.41 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.41 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.41 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 66% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 26% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 23% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.7

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-20GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-4 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 25600 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Antimony | 6.2 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Arsenic | 25.2 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Barium | 474 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Beryllium | 2.2 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cadmium | 6.2 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Calcium | 72600 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Chromium | 56.0 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Copper | 93.0 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Iron | 42500 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Lead | 253 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Magnesium | 25000 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Manganese | 4550 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Mercury | < 0.60 | 0.60 | ug/l | 1 | 12/10/21 | 12/10/21 | SB | SW846 7470A ¹ SW846 7470A ⁵ |
| Nickel | 85.2 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Potassium | 16700 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Sodium | 88100 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Vanadium | 77.9 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Zinc | 416 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |

- (1) Instrument QC Batch: MA51573
- (2) Instrument QC Batch: MA51610
- (3) Instrument QC Batch: MA51617
- (4) Prep QC Batch: MP30296
- (5) Prep QC Batch: MP30309

RL = Reporting Limit

4.7

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-20GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-4A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82365.D | 1 | 12/28/21 05:14 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|-----|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 3.7 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 1.7 | 1.9 | 0.93 | ng/l | J |
| 335-67-1 | Perfluorooctanoic acid | 12.9 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 2.8 | 1.9 | 0.93 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 1.0 | 1.9 | 0.93 | ng/l | J |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 8.9 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 3.7 | 1.9 | ng/l | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-20GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-4A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 95% | | 35-135% |
| | 13C5-PFPeA | 90% | | 50-150% |
| | 13C5-PFHxA | 89% | | 50-150% |
| | 13C4-PFHpA | 91% | | 50-150% |
| | 13C8-PFOA | 97% | | 50-150% |
| | 13C9-PFNA | 97% | | 50-150% |
| | 13C6-PFDA | 104% | | 50-150% |
| | 13C7-PFUnDA | 96% | | 40-140% |
| | 13C2-PFDoDA | 78% | | 40-140% |
| | 13C2-PFTeDA | 49% | | 30-130% |
| | 13C3-PFBS | 96% | | 50-150% |
| | 13C3-PFHxS | 98% | | 50-150% |
| | 13C8-PFOS | 95% | | 50-150% |
| | 13C8-FOSA | 40% | | 30-130% |
| | d3-MeFOSAA | 110% | | 40-140% |
| | d5-EtFOSAA | 111% | | 40-140% |
| | 13C2-6:2FTS | 104% | | 50-150% |
| | 13C2-8:2FTS | 102% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335794.D | 1 | 12/10/21 06:59 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | 16.6 | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 95% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.56 | 12 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146522.D | 1 | 12/12/21 19:56 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146666.D | 1 | 12/18/21 10:12 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | 970 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | 0.68 | 1.0 | 0.22 | ug/l | J |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.0 | 0.66 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | 0.28 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | 0.25 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.0 | 0.41 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.37 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.56 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.0 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.67 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.1 | 0.22 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.17 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.17 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.33 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.50 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.8 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.0 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.0 | 0.28 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | 1.0 | 1.0 | 0.21 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | 0.28 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | 0.39 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | 1.1 | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | 0.49 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.0 | 0.18 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.0 | 0.22 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 16% | 39% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-22GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-5 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 12% | 27% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 47% | 91% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 52% | 75% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 50% | 80% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 36% | 79% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | System artifact | 2.75 | 22 | ug/l | J |
| | System artifact | 3.03 | 20 | ug/l | J |
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E BY SIM SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105108.D | 1 | 12/14/21 20:58 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.051 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 79% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 53% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-22GW | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-5 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155614.D | 1 | 12/16/21 15:38 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.37 | 0.074 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.074 | 0.047 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.074 | 0.014 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 73% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 71% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8081B SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6G81144.D | 1 | 12/13/21 22:46 | TL | 12/09/21 16:45 | OP37028 | G6G2869 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 245 ml | 2.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------|--------|--------|---------|-------|---|
| 309-00-2 | Aldrin | ND | 0.0082 | 0.0042 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.0082 | 0.0042 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.0082 | 0.0065 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.0082 | 0.0054 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.0082 | 0.0049 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.0082 | 0.0040 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.0082 | 0.0035 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.0082 | 0.0063 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.0082 | 0.0047 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.0082 | 0.0041 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.0082 | 0.0056 | ug/l | |
| 72-20-8 | Endrin | ND | 0.0082 | 0.0049 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.0082 | 0.0044 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.0082 | 0.0055 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.0082 | 0.0051 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.0082 | 0.0043 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.0082 | 0.0040 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.0082 | 0.0037 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.0082 | 0.0049 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.016 | 0.0055 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.20 | 0.13 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 877-09-8 | Tetrachloro-m-xylene | 138% | | 10-190% | | |
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 10-190% | | |
| 2051-24-3 | Decachlorobiphenyl | 40% | | 10-156% | | |
| 2051-24-3 | Decachlorobiphenyl | 36% | | 10-156% | | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-22GW | |
| Lab Sample ID: | JD36297-5 | Date Sampled: 12/06/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475665.D | 1 | 12/13/21 08:55 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 245 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.41 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.41 | 0.34 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.41 | 0.21 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.41 | 0.19 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.41 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.41 | 0.34 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.41 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.41 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.41 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 83% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 33% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 29% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | |
|---|---|
| Client Sample ID: TT-SB-22GW Lab Sample ID: JD36297-5 Matrix: AQ - Ground Water Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/06/21 Date Received: 12/07/21 Percent Solids: n/a |
|---|---|

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|---------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 7540 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Arsenic | 9.6 | 3.0 | ug/l | 1 | 12/10/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Barium | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Beryllium | < 1.0 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Calcium | 44100 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Chromium | 11.9 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Copper | 17.7 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Iron | 10000 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Lead | 20.3 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Magnesium | 5430 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Manganese | 297 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/10/21 | 12/10/21 | SB | SW846 7470A ¹ SW846 7470A ⁵ |
| Nickel | 11.2 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Potassium | < 10000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Sodium | 16000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Zinc | 56.8 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |

- (1) Instrument QC Batch: MA51573
- (2) Instrument QC Batch: MA51610
- (3) Instrument QC Batch: MA51617
- (4) Prep QC Batch: MP30296
- (5) Prep QC Batch: MP30309

RL = Reporting Limit

4.9

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-22GW | Date Sampled: | 12/06/21 |
| Lab Sample ID: | JD36297-5A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82366.D | 1 | 12/28/21 05:33 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|-----|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 12.7 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 7.4 | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 6.1 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 3.7 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 19.2 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 2.8 | 1.9 | 0.93 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | 2.8 | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 1.9 | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.1 | 1.9 | 0.93 | ng/l | J |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 15.4 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 3.7 | 1.9 | ng/l | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-22GW | | Date Sampled: 12/06/21 |
| Lab Sample ID: JD36297-5A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.10

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 93% | | 35-135% |
| | 13C5-PFPeA | 89% | | 50-150% |
| | 13C5-PFHxA | 89% | | 50-150% |
| | 13C4-PFHpA | 90% | | 50-150% |
| | 13C8-PFOA | 92% | | 50-150% |
| | 13C9-PFNA | 88% | | 50-150% |
| | 13C6-PFDA | 87% | | 50-150% |
| | 13C7-PFUnDA | 75% | | 40-140% |
| | 13C2-PFDoDA | 59% | | 40-140% |
| | 13C2-PFTeDA | 55% | | 30-130% |
| | 13C3-PFBS | 91% | | 50-150% |
| | 13C3-PFHxS | 94% | | 50-150% |
| | 13C8-PFOS | 86% | | 50-150% |
| | 13C8-FOSA | 52% | | 30-130% |
| | d3-MeFOSAA | 110% | | 40-140% |
| | d5-EtFOSAA | 94% | | 40-140% |
| | 13C2-6:2FTS | 101% | | 50-150% |
| | 13C2-8:2FTS | 92% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-6 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335795.D | 1 | 12/10/21 07:20 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | 7.6 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | 0.55 | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23GW | |
| Lab Sample ID: | JD36297-6 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8260D | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 107% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.57 | 32 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
 (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-6 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146518.D | 1 | 12/12/21 18:13 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146667.D | 1 | 12/18/21 10:37 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | 950 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.2 | 0.85 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.2 | 0.92 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.1 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.2 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.2 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.2 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.1 | 0.92 | ug/l | |
| | 3&4-Methylphenol | ND | 2.1 | 0.91 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.2 | 0.99 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.1 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.2 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.2 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.2 | 0.95 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.20 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.1 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.1 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.2 | 0.30 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.1 | 0.42 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.1 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.1 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.2 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.24 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-6 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.1 | 0.67 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.1 | 0.29 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.1 | 0.26 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.1 | 0.42 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.1 | 0.38 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.57 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.1 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.68 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.2 | 0.23 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.1 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.1 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.1 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.1 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.1 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.18 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.18 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.34 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.51 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.9 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.1 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.1 | 0.29 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.22 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.2 | 0.29 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.2 | 0.40 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.2 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.1 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.1 | 0.50 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.2 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.0 | 0.18 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.0 | 0.23 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.1 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 17% | 42% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23GW | |
| Lab Sample ID: | JD36297-6 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 13% | 30% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 62% | 96% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 46% | 75% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 52% | 82% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 32% | 55% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|------------|----------------------------------|-------|------------|-------|----|
| 10544-50-0 | Cyclic octaatomic sulfur | 10.75 | 6.4 | ug/l | JN |
| | Total TIC, Semi-Volatile | | 6.4 | ug/l | J |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-6 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E BY SIM SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105104.D | 1 | 12/14/21 19:36 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | 0.0537 | 0.10 | 0.052 | ug/l | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 77% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 46% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-23GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-6 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155603.D | 1 | 12/16/21 09:15 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.40 | 0.080 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.080 | 0.050 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.080 | 0.015 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 105% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 128% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23GW | |
| Lab Sample ID: | JD36297-6 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8081B SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 6G81190.D | 1 | 12/15/21 01:37 | CP | 12/09/21 16:45 | OP37028 | G6G2871 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 220 ml | 2.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|--------|--------|-------|---|
| 309-00-2 | Aldrin | ND | 0.0091 | 0.0047 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.0091 | 0.0047 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.0091 | 0.0073 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.0091 | 0.0060 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.0091 | 0.0054 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.0091 | 0.0045 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.0091 | 0.0039 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.0091 | 0.0070 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.0091 | 0.0052 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.0091 | 0.0046 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.0091 | 0.0062 | ug/l | |
| 72-20-8 | Endrin | ND | 0.0091 | 0.0055 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.0091 | 0.0050 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.0091 | 0.0061 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.0091 | 0.0056 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.0091 | 0.0048 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.0091 | 0.0044 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.0091 | 0.0041 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.0091 | 0.0055 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.018 | 0.0061 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.23 | 0.15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 41% | | 10-190% |
| 877-09-8 | Tetrachloro-m-xylene | 36% | | 10-190% |
| 2051-24-3 | Decachlorobiphenyl | 11% | | 10-156% |
| 2051-24-3 | Decachlorobiphenyl | 17% | | 10-156% |

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-23GW | |
| Lab Sample ID: | JD36297-6 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475666.D | 1 | 12/13/21 09:12 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 220 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.45 | 0.18 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.45 | 0.38 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.45 | 0.24 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.45 | 0.21 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.45 | 0.11 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.45 | 0.38 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.45 | 0.14 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.45 | 0.16 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.45 | 0.18 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 38% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 41% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 13% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 12% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.11

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-23GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-6 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|------------------------|--------|-------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | 70900 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Antimony ^a | < 30 | 30 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Arsenic ^a | 66.6 | 15 | ug/l | 5 | 12/10/21 | 12/17/21 | ND SW846 6010D ⁴ | SW846 3010A ⁵ |
| Barium | 1390 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Beryllium ^a | 7.1 | 5.0 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Cadmium ^a | < 15 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Calcium | 318000 | 25000 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Chromium | 140 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Cobalt | 98.4 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Copper ^a | 233 | 50 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Iron | 376000 | 500 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Lead ^a | 258 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Magnesium | 86600 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Manganese ^a | 10700 | 75 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Mercury | 0.80 | 0.60 | ug/l | 1 | 12/10/21 | 12/10/21 | SB SW846 7470A ¹ | SW846 7470A ⁶ |
| Nickel | 206 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Potassium | 38500 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Selenium ^a | < 50 | 50 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Silver ^a | < 50 | 50 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Sodium | 170000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Thallium ^a | < 50 | 50 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁵ |
| Vanadium | 209 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |
| Zinc | 501 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁵ |

- (1) Instrument QC Batch: MA51573
- (2) Instrument QC Batch: MA51610
- (3) Instrument QC Batch: MA51617
- (4) Instrument QC Batch: MA51625
- (5) Prep QC Batch: MP30296
- (6) Prep QC Batch: MP30311

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

4.11

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-23GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-6A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82367.D | 1 | 12/28/21 05:52 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 ^b | 2Q82430.D | 5 | 12/29/21 01:31 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1165 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | 270 ml | 1.0 ml |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|-----------------|-----|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 9.4 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 5.9 | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 5.6 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 11.4 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 111 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.1 | 1.9 | 0.93 | ng/l | J |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 4.1 | 1.9 | 0.93 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 2.2 | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 3.6 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND ^c | 19 | 9.3 | ng/l | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-23GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-6A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.12

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|------------------|--------|---------|
| | 13C4-PFBA | 83% | 73% | 35-135% |
| | 13C5-PFPeA | 79% | 73% | 50-150% |
| | 13C5-PFHxA | 78% | 72% | 50-150% |
| | 13C4-PFHpA | 79% | 74% | 50-150% |
| | 13C8-PFOA | 83% | 76% | 50-150% |
| | 13C9-PFNA | 85% | 77% | 50-150% |
| | 13C6-PFDA | 88% | 73% | 50-150% |
| | 13C7-PFUnDA | 72% | 61% | 40-140% |
| | 13C2-PFDoDA | 61% | 52% | 40-140% |
| | 13C2-PFTeDA | 55% | 45% | 30-130% |
| | 13C3-PFBS | 83% | 74% | 50-150% |
| | 13C3-PFHxS | 82% | 74% | 50-150% |
| | 13C8-PFOS | 85% | 72% | 50-150% |
| | 13C8-FOSA | 27% ^d | 38% | 30-130% |
| | d3-MeFOSAA | 79% | 65% | 40-140% |
| | d5-EtFOSAA | 74% | 55% | 40-140% |
| | 13C2-6:2FTS | 88% | 78% | 50-150% |
| | 13C2-8:2FTS | 84% | 60% | 50-150% |

- (a) Analysis performed at SGS Orlando, FL.
- (b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335796.D | 1 | 12/10/21 07:41 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 0.73 | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 104% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.57 | 12 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146519.D | 1 | 12/12/21 18:38 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146668.D | 1 | 12/18/21 11:02 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | 970 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | 1.2 | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.0 | 0.66 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | 0.28 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | 0.25 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.0 | 0.41 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.37 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.56 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.0 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.67 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | 0.39 | 5.1 | 0.22 | ug/l | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | 0.23 | 1.0 | 0.17 | ug/l | J |
| 86-73-7 | Fluorene | 0.18 | 1.0 | 0.17 | ug/l | J |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.33 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.50 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.8 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.0 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.0 | 0.28 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.21 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | 0.28 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | 0.39 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | 1.0 | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | 0.49 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | 0.54 | 1.0 | 0.18 | ug/l | J |
| 129-00-0 | Pyrene | ND | 1.0 | 0.22 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 30% | 28% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-12GW | |
| Lab Sample ID: | JD36297-7 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 21% | 19% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 67% | 83% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 52% | 68% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 57% | 67% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 45% | 49% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|------------|----------------------------------|-------|------------|-------|----|
| 10544-50-0 | Cyclic octaatomic sulfur | 10.79 | 74 | ug/l | JN |
| | Total TIC, Semi-Volatile | | 74 | ug/l | J |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E BY SIM SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105105.D | 1 | 12/14/21 19:57 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | 0.0615 | 0.10 | 0.051 | ug/l | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 81% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 84% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 68% | | 25-118% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

4.13

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-12GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-7 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155604.D | 1 | 12/16/21 09:47 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 245 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.41 | 0.081 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.082 | 0.051 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.082 | 0.016 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 107% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 86% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-12GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-7 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8081B SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 6G81191.D | 1 | 12/15/21 01:55 | CP | 12/09/21 16:45 | OP37028 | G6G2871 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|--------|--------|-------|---|
| 309-00-2 | Aldrin | ND | 0.0080 | 0.0041 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.0080 | 0.0042 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.0080 | 0.0064 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.0080 | 0.0053 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.0080 | 0.0048 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.0080 | 0.0039 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.0080 | 0.0034 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.0080 | 0.0061 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.0080 | 0.0046 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.0080 | 0.0040 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.0080 | 0.0055 | ug/l | |
| 72-20-8 | Endrin | ND | 0.0080 | 0.0048 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.0080 | 0.0044 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.0080 | 0.0054 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.0080 | 0.0050 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.0080 | 0.0042 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.0080 | 0.0039 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.0080 | 0.0036 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.0080 | 0.0048 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.016 | 0.0054 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.20 | 0.13 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 99% | | 10-190% |
| 877-09-8 | Tetrachloro-m-xylene | 91% | | 10-190% |
| 2051-24-3 | Decachlorobiphenyl | 41% | | 10-156% |
| 2051-24-3 | Decachlorobiphenyl | 50% | | 10-156% |

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-12GW | |
| Lab Sample ID: | JD36297-7 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475667.D | 1 | 12/13/21 09:29 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.40 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.40 | 0.34 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.40 | 0.21 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.40 | 0.18 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.40 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.40 | 0.33 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.40 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.40 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.40 | 0.15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 65% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 66% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 38% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 35% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------------------|---------|--------|-------|----|----------|-------------|-----------------------------|--------------------------|
| Aluminum | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Arsenic ^a | < 15 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Barium | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Beryllium | 2.0 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Calcium | 210000 | 25000 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Copper | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Iron | 806 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Lead ^a | < 15 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Magnesium | 276000 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Manganese | 27.6 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/10/21 | 12/10/21 | SB SW846 7470A ¹ | SW846 7470A ⁵ |
| Nickel | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Potassium | 189000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Sodium | 3760000 | 500000 | ug/l | 50 | 12/10/21 | 12/16/21 | ND SW846 6010D ³ | SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |
| Zinc | 39.5 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND SW846 6010D ² | SW846 3010A ⁴ |

(1) Instrument QC Batch: MA51573

(2) Instrument QC Batch: MA51610

(3) Instrument QC Batch: MA51617

(4) Prep QC Batch: MP30296

(5) Prep QC Batch: MP30311

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-12GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-7A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82368.D | 1 | 12/28/21 06:11 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 ^b | 2Q82431.D | 5 | 12/29/21 01:50 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1165 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | 270 ml | 1.0 ml |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|-----------------|-----|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 5.4 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 1.7 | 1.9 | 0.93 | ng/l | J |
| 307-24-4 | Perfluorohexanoic acid | 2.9 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 4.3 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 26.6 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 0.96 | 1.9 | 0.93 | ng/l | J |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 11.6 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND ^c | 19 | 9.3 | ng/l | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | 2.7 | 3.7 | 1.9 | ng/l | J |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-12GW | |
| Lab Sample ID: | JD36297-7A | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | EPA 537M BY ID IN HOUSE | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

4.14

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|------------------|--------|---------|
| | 13C4-PFBA | 85% | 89% | 35-135% |
| | 13C5-PFPeA | 77% | 85% | 50-150% |
| | 13C5-PFHxA | 71% | 82% | 50-150% |
| | 13C4-PFHpA | 73% | 84% | 50-150% |
| | 13C8-PFOA | 77% | 85% | 50-150% |
| | 13C9-PFNA | 81% | 83% | 50-150% |
| | 13C6-PFDA | 86% | 88% | 50-150% |
| | 13C7-PFUnDA | 89% | 83% | 40-140% |
| | 13C2-PFDoDA | 73% | 69% | 40-140% |
| | 13C2-PFTeDA | 59% | 53% | 30-130% |
| | 13C3-PFBS | 83% | 83% | 50-150% |
| | 13C3-PFHxS | 80% | 85% | 50-150% |
| | 13C8-PFOS | 84% | 83% | 50-150% |
| | 13C8-FOSA | 23% ^d | 31% | 30-130% |
| | d3-MeFOSAA | 82% | 103% | 40-140% |
| | d5-EtFOSAA | 93% | 96% | 40-140% |
| | 13C2-6:2FTS | 82% | 95% | 50-150% |
| | 13C2-8:2FTS | 94% | 78% | 50-150% |

- (a) Analysis performed at SGS Orlando, FL.
- (b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | GW-DUP-01 | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-8 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335797.D | 1 | 12/10/21 08:02 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 0.74 | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | 0.46 | 2.0 | 0.46 | ug/l | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | GW-DUP-01 | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-8 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|-----------|----------------------------------|------|------------|-------|----|
| | system artifact | 1.57 | 9.8 | ug/l | J |
| 7446-09-5 | Sulfur dioxide | 1.80 | 9.2 | ug/l | JN |
| | Total TIC, Volatile | | 9.2 | ug/l | J |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | GW-DUP-01 | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-8 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146520.D | 1 | 12/12/21 19:03 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146669.D | 1 | 12/18/21 11:27 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | 970 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.2 | 0.85 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.2 | 0.92 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.1 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.2 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.2 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.2 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.1 | 0.92 | ug/l | |
| | 3&4-Methylphenol | ND | 2.1 | 0.91 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.2 | 0.99 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.1 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.2 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.2 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.2 | 0.95 | ug/l | |
| 83-32-9 | Acenaphthene | 1.1 | 1.0 | 0.20 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.1 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.1 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.2 | 0.30 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.1 | 0.42 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.1 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.1 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.2 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.24 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | GW-DUP-01 | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-8 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.1 | 0.67 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.1 | 0.29 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.1 | 0.26 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.1 | 0.42 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.1 | 0.38 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.57 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.1 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.68 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | 0.36 | 5.2 | 0.23 | ug/l | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.1 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.1 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.1 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.1 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.1 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.18 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.18 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.34 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.51 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.9 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.1 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.1 | 0.29 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.22 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.2 | 0.29 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.2 | 0.40 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.2 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | 0.89 | 1.0 | 0.24 | ug/l | J |
| 98-95-3 | Nitrobenzene | ND | 2.1 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.1 | 0.50 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.2 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | 0.52 | 1.0 | 0.18 | ug/l | J |
| 129-00-0 | Pyrene | ND | 1.0 | 0.23 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.1 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 16% | 24% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|---|
| Client Sample ID: GW-DUP-01 Lab Sample ID: JD36297-8 Matrix: AQ - Ground Water Method: SW846 8270E SW846 3510C Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/07/21 Date Received: 12/07/21 Percent Solids: n/a |
|--|---|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 12% | 17% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 53% | 94% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 46% | 44% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 48% | 53% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 21% | 71% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|------------|----------------------------------|-------|------------|-------|----|
| 10544-50-0 | Cyclic octaatomic sulfur | 10.76 | 27 | ug/l | JN |
| | Total TIC, Semi-Volatile | | 27 | ug/l | J |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: GW-DUP-01 | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-8 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E BY SIM SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105106.D | 1 | 12/14/21 20:17 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 970 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.052 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 72% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 30% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: GW-DUP-01 | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-8 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155605.D | 1 | 12/16/21 10:20 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.40 | 0.080 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.080 | 0.050 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.080 | 0.015 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 121% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 96% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: GW-DUP-01 | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-8 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8081B SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 ^a | 6G81192.D | 1 | 12/15/21 02:13 | CP | 12/09/21 16:45 | OP37028 | G6G2871 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|--------|--------|-------|---|
| 309-00-2 | Aldrin | ND | 0.0080 | 0.0041 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.0080 | 0.0042 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.0080 | 0.0064 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.0080 | 0.0053 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.0080 | 0.0048 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.0080 | 0.0039 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.0080 | 0.0034 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.0080 | 0.0061 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.0080 | 0.0046 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.0080 | 0.0040 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.0080 | 0.0055 | ug/l | |
| 72-20-8 | Endrin | ND | 0.0080 | 0.0048 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.0080 | 0.0044 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.0080 | 0.0054 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.0080 | 0.0050 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.0080 | 0.0042 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.0080 | 0.0039 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.0080 | 0.0036 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.0080 | 0.0048 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.016 | 0.0054 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.20 | 0.13 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 89% | | 10-190% |
| 877-09-8 | Tetrachloro-m-xylene | 79% | | 10-190% |
| 2051-24-3 | Decachlorobiphenyl | 40% | | 10-156% |
| 2051-24-3 | Decachlorobiphenyl | 55% | | 10-156% |

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: GW-DUP-01 | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-8 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8082A SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475668.D | 1 | 12/13/21 09:46 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.40 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.40 | 0.34 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.40 | 0.21 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.40 | 0.18 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.40 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.40 | 0.33 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.40 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.40 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.40 | 0.15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 69% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 63% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 49% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 44% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.15

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: GW-DUP-01 | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-8 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------------------|---------|--------|-------|----|----------|-------------|--------|---|
| Aluminum | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Arsenic ^a | < 15 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Barium | < 200 | 200 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Beryllium | 2.0 | 1.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Calcium | 219000 | 25000 | ug/l | 5 | 12/10/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Copper | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Iron | 275 | 100 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Lead ^a | < 15 | 15 | ug/l | 5 | 12/10/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Magnesium | 283000 | 5000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Manganese | 20.5 | 15 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/10/21 | 12/10/21 | SB | SW846 7470A ¹ SW846 7470A ⁵ |
| Nickel | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Potassium | 193000 | 10000 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Sodium | 4010000 | 500000 | ug/l | 50 | 12/10/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Zinc | < 20 | 20 | ug/l | 1 | 12/10/21 | 12/15/21 | ND | SW846 6010D ² SW846 3010A ⁴ |

- (1) Instrument QC Batch: MA51573
- (2) Instrument QC Batch: MA51610
- (3) Instrument QC Batch: MA51617
- (4) Prep QC Batch: MP30296
- (5) Prep QC Batch: MP30311

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

4.15

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | GW-DUP-01 | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-8A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82369.D | 1 | 12/28/21 06:30 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 ^b | 2Q82432.D | 5 | 12/29/21 02:09 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1165 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | 270 ml | 1.0 ml |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|-----------------|-----|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 4.6 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 1.9 | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 2.9 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 3.7 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 26.8 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.0 | 1.9 | 0.93 | ng/l | J |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 12.0 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND ^c | 19 | 9.3 | ng/l | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | 3.3 | 3.7 | 1.9 | ng/l | J |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: GW-DUP-01 | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-8A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.16

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|------------------|--------|---------|
| | 13C4-PFBA | 87% | 86% | 35-135% |
| | 13C5-PFPeA | 79% | 83% | 50-150% |
| | 13C5-PFHxA | 72% | 79% | 50-150% |
| | 13C4-PFHpA | 73% | 81% | 50-150% |
| | 13C8-PFOA | 78% | 82% | 50-150% |
| | 13C9-PFNA | 81% | 80% | 50-150% |
| | 13C6-PFDA | 83% | 83% | 50-150% |
| | 13C7-PFUnDA | 76% | 70% | 40-140% |
| | 13C2-PFDoDA | 61% | 55% | 40-140% |
| | 13C2-PFTeDA | 56% | 49% | 30-130% |
| | 13C3-PFBS | 85% | 83% | 50-150% |
| | 13C3-PFHxS | 81% | 84% | 50-150% |
| | 13C8-PFOS | 83% | 73% | 50-150% |
| | 13C8-FOSA | 26% ^d | 34% | 30-130% |
| | d3-MeFOSAA | 76% | 91% | 40-140% |
| | d5-EtFOSAA | 78% | 78% | 40-140% |
| | 13C2-6:2FTS | 82% | 91% | 50-150% |
| | 13C2-8:2FTS | 93% | 75% | 50-150% |

- (a) Analysis performed at SGS Orlando, FL.
- (b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-9 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | L335798.D | 1 | 12/10/21 08:23 | JS | n/a | n/a | VL10097 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | 0.47 | 2.0 | 0.46 | ug/l | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan ^b | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-18GW | |
| Lab Sample ID: | JD36297-9 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8260D | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate ^a | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 106% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 1.56 | 79 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-9 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | P146521.D | 1 | 12/12/21 19:30 | KLS | 12/10/21 10:28 | OP37019 | EP6750 |
| Run #2 ^b | P146670.D | 1 | 12/18/21 11:51 | CS | 12/17/21 13:20 | OP37190 | EP6759 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | 960 ml | 1.0 ml |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.0 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.0 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.0 | 0.35 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.0 | 0.21 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-9 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.0 | 0.66 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.0 | 0.18 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.0 | 0.28 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.0 | 0.25 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.0 | 0.41 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.0 | 0.37 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 1.0 | 0.56 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 1.0 | 0.49 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.0 | 0.52 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.0 | 0.67 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.0 | 0.34 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.1 | 0.22 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.0 | 0.51 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.0 | 0.24 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.0 | 0.27 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.0 | 0.22 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.0 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.0 | 0.17 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.0 | 0.17 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.33 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 1.0 | 0.50 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 10 | 2.8 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 2.0 | 0.40 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.0 | 0.34 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.0 | 0.28 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.0 | 0.21 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 5.1 | 0.28 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.1 | 0.39 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.1 | 0.45 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.0 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 2.0 | 0.66 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 2.0 | 0.49 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.1 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.0 | 0.18 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.0 | 0.22 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.0 | 0.38 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 13% | 33% | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-18GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-9 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.17

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 10% | 24% | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 47% | 86% | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 46% | 67% | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 48% | 72% | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 22% | 73% | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

- (a) There are compounds in BS were outside in house QC limits. The results confirmed by reextraction outside the holding time.
- (b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-9 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E BY SIM SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105107.D | 1 | 12/14/21 20:37 | KLS | 12/10/21 10:28 | OP37019A | E4M4885 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.10 | 0.051 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 33% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-18GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-9 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155606.D | 1 | 12/16/21 10:52 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 245 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.41 | 0.081 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.082 | 0.051 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.082 | 0.016 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 22% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 20% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-18GW | |
| Lab Sample ID: | JD36297-9 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475673.D | 1 | 12/13/21 11:13 | TL | 12/09/21 16:45 | OP37029 | GXX7681 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.40 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.40 | 0.34 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.40 | 0.21 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.40 | 0.18 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.40 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.40 | 0.33 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.40 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.40 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.40 | 0.15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 66% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 65% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 50% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 44% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.17

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-18GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36297-9A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 2Q82372.D | 1 | 12/28/21 07:27 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1164 |
| Run #2 ^b | 2Q82433.D | 5 | 12/29/21 02:28 | AFL | 12/20/21 09:00 | F:OP88921 | F:S2Q1165 |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | 270 ml | 1.0 ml |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|-----------------|-----|------|-------|---|
| PERFLUOROALKYL CARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 7.5 | 3.7 | 1.9 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 2.2 | 1.9 | 0.93 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 2.4 | 1.9 | 0.93 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 4.1 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 33.4 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYL SULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 2.4 | 1.9 | 0.93 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUORO OCTANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND ^c | 19 | 9.3 | ng/l | |
| PERFLUORO OCTANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-18GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36297-9A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.18

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|------------------|--------|---------|
| | 13C4-PFBA | 79% | 76% | 35-135% |
| | 13C5-PFPeA | 75% | 74% | 50-150% |
| | 13C5-PFHxA | 74% | 73% | 50-150% |
| | 13C4-PFHpA | 80% | 76% | 50-150% |
| | 13C8-PFOA | 84% | 79% | 50-150% |
| | 13C9-PFNA | 88% | 79% | 50-150% |
| | 13C6-PFDA | 97% | 79% | 50-150% |
| | 13C7-PFUnDA | 82% | 68% | 40-140% |
| | 13C2-PFDoDA | 71% | 59% | 40-140% |
| | 13C2-PFTeDA | 60% | 47% | 30-130% |
| | 13C3-PFBS | 80% | 75% | 50-150% |
| | 13C3-PFHxS | 85% | 78% | 50-150% |
| | 13C8-PFOS | 86% | 80% | 50-150% |
| | 13C8-FOSA | 23% ^d | 37% | 30-130% |
| | d3-MeFOSAA | 98% | 79% | 40-140% |
| | d5-EtFOSAA | 95% | 68% | 40-140% |
| | 13C2-6:2FTS | 92% | 85% | 50-150% |
| | 13C2-8:2FTS | 94% | 68% | 50-150% |

- (a) Analysis performed at SGS Orlando, FL.
- (b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



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Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)

SGS Sample Receipt Summary

Job Number: JD36297

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/7/2021 7:00:00 PM

Delivery Method: SGS

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0); Cooler 2: (2.9); Cooler 3: (3.7); Cooler 4: (3.0); Cooler 5: (3.4); Cooler 6: (2.6); Cooler 7: (2.1); Cooler 8: (2.5); Cooler 9: (2.5); Cooler 10: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (0.6); Cooler 2: (1.5); Cooler 3: (2.3); Cooler 4: (1.6); Cooler 5: (2.0); Cooler 6: (1.2); Cooler 7: (0.7); Cooler 8: (1.1); Cooler 9: (1.1); Cooler 10: (1.2);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 10 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD36297: Chain of Custody

Page 2 of 4



5.1

JD36297: Chain of Custody
Page 3 of 4

Job Change Order: JD36297

Requested Date: 12/13/2021 **Received Date:** 12/7/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD36297-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.

TAT: 7
=====

JD36297: Chain of Custody
Page 4 of 4

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.





CHAIN OF CUSTODY
 SGS North America Inc. - Dayton
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.sgs.com/ehesusa

CHAIN OF Page 1 of 1

| Client / Reporting Information | | Project Information | | Requested Analysis | | | | | | | | | | | | Matrix Codes | |
|--|------------|--|-------------|--|----|--------------------|--|--|--|--|--|---|--|---|--|---|--|
| Company Name: Project Name: | | 2nd Avenue and 33-39th Street, Brooklyn, NY | | L00567N121.LCMB+14DAY Requested Analysis: [Grid of analysis types] | | | | | | | | | | | | Matrix Codes: DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment CI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinsate Blank TB - Trip Blank | |
| Street Address: | | City: | | | | | | | | | | | | | | | |
| City State Zip: | | Billing Information (if different from Report to): | | | | | | | | | | | | | | | |
| Project Contact: E-mail: | | Project #: | | | | | | | | | | | | | | | |
| Phone #: | | Client Purchase Order #: | | Initial Assessment: [Signature] | | | | | | | | | | | | | |
| Sampler(s) Name(s): | | Project Manager: | | Label Verification: [Signature] | | | | | | | | | | | | | |
| CB | | Attention: | | Turnaround Time (Business days): _____ | | | | | | | | | | | | | |
| SGS Sample #: | | MECHSDI Val #: | | Data Deliverable Information: <input type="checkbox"/> Standard 10 Business Days <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> Other 3/14/1900 Approved By (SGS PM) / Date: _____ | | | | | | | | | | | | | |
| Field ID / Point of Collection: | | Date: | | Time: | | Sampled by: | | Matrix: | | # of bottles: | | <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input checked="" type="checkbox"/> Other NYASPB | | <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other NYASPB | | | |
| 1A | TT-SB-31GW | 12/6/21 | 8:45:00 AM | CB | AQ | | | | | | | | | | | | |
| 2A | TT-SB-30GW | 12/6/21 | 10:37:00 AM | CB | AQ | | | | | | | | | | | | |
| 3A | TT-SB-27GW | 12/6/21 | 12:01:00 PM | CB | AQ | | | | | | | | | | | | |
| 4A | TT-SB-20GW | 12/6/21 | 1:20:00 PM | CB | AQ | | | | | | | | | | | | |
| 5A | TT-SB-22GW | 12/6/21 | 3:20:00 PM | CB | AQ | | | | | | | | | | | | |
| 6A | TT-SB-23GW | 12/7/21 | 8:32:00 AM | CB | AQ | | | | | | | | | | | | |
| 7A | TT-SB-12GW | 12/7/21 | 11:05:00 AM | CB | AQ | | | | | | | | | | | | |
| 8A | GW-DUP-01 | 12/7/21 | 12:00:00 PM | CB | AQ | | | | | | | | | | | | |
| 9A | TT-SB-18GW | 12/7/21 | 12:15:00 PM | CB | AQ | | | | | | | | | | | | |
| Emergency & Rush TIA data available via Lablink. Approval needed for RUSH/Emergency TAT. | | Sample Custody must be documented below each time samples change possession, including courier delivery. | | Comments / Special Instructions: _____ | | | | | | | | | | | | | |
| Relinquished by: Michael Dwyer | | Date / Time: 12/6/21 | | Received By: 1 | | Relinquished By: 2 | | Date / Time: 12/6/21 | | Received By: 3 | | Relinquished By: 4 | | Date / Time: 12/6/21 | | Received By: 5 | |
| Relinquished by: 3 | | Date / Time: | | Received By: 3 | | Relinquished By: 4 | | Date / Time: | | Received By: 4 | | Relinquished By: 5 | | Date / Time: | | Received By: 5 | |
| Relinquished by: 5 | | Date / Time: | | Received By: 5 | | Custody Seal #: | | <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact <input type="checkbox"/> Assured | | <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> Therm. ID: _____ | | On Ice: <input type="checkbox"/> | | Cooler Temp: _____ | | | |

0.4 IR #4

JD36297.xls
 Rev. Date: 4/10/18

JD36297: Chain of Custody
 Page 1 of 2
 SGS Orlando, FL



SGS Sample Receipt Summary

Job Number: JD36297

Client: SGS NJ

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/9/2021 3:30:00 PM

Delivery Method: FX

Airbill #'s: 5272 0636 9954

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.2);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Information

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

Trip Blank Information

Y or N

N/A

- 1. Trip Blank present / cooler
 - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

Sample Information

Y or N

N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: STEPHENP

Date: 12/9/2021 3:30:00 PM

Reviewer: _____

Date: _____

JD36297: Chain of Custody

Page 2 of 2

5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD36309

Sampling Date: 12/07/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 53



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499



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Sample Summary

Tetra Tech

Job No: JD36309

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

**This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL**

| | | | | | | | |
|------------|----------|-------|----|----------|----|--------------|------------|
| JD36309-1 | 12/07/21 | 13:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-13GW |
| JD36309-1A | 12/07/21 | 13:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-13GW |
| JD36309-2 | 12/07/21 | 14:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-06GW |
| JD36309-2A | 12/07/21 | 14:20 | CB | 12/07/21 | AQ | Ground Water | TT-SB-06GW |
| JD36309-3 | 12/07/21 | 15:35 | CB | 12/07/21 | AQ | Ground Water | TT-SB-02GW |
| JD36309-3A | 12/07/21 | 15:35 | CB | 12/07/21 | AQ | Ground Water | TT-SB-02GW |

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD36309

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/29/2021 4:45:00 P

On 12/07/2021, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36309 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V2B8533

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD36383-2MS, JD36383-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD36309-3 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-2 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-2 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-1 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-1 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-3 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-1 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-3 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD36309-2 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ

Batch ID: F:OP88920

- The data for EPA 537M BY ID meets quality control requirements.
- JD36309-1A: Analysis performed at SGS Orlando, FL.
- JD36309-3A: Analysis performed at SGS Orlando, FL.
- JD36309-2A: Analysis performed at SGS Orlando, FL.

Wednesday, December 29, 2021

Page 1 of 4

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ

Batch ID: OP37044

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36294-5MS, JD36294-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD36309-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for Hexachloroethane: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for Nitrobenzene: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for Hexachloroethane: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- OP37044-BS1 for Acenaphthylene: Outside of in house control limits, but within the marginal exceedance limits.
- JD36309-1 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for Nitrobenzene: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for Nitrobenzene: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for Hexachloroethane: Associated CCV outside of control limits high, sample was ND.
- JD36309-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD36309-1 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.

Wednesday, December 29, 2021

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MS Semi-volatiles By Method SW846 8270E

Matrix: AQ

Batch ID: OP37044

- JD36309-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD36309-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ

Batch ID: OP37044A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD36294-5MS, JD36294-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ

Batch ID: OP37055

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36387-1MS, JD36387-1MSD, OP37055-MSMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 4,4'-DDD are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Endrin aldehyde are outside control limits for sample OP37055-MSD. Analytical precision exceeds in-house control limits.
- OP37055-BS1: Had TBA cleanup.
- OP37055-BSD: Had TBA cleanup.
- OP37055-MB1: Had TBA cleanup.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ

Batch ID: OP37056

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8151A

Matrix: AQ

Batch ID: OP37027

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010D

Matrix: AQ

Batch ID: MP30320

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36309-2MS, JD36309-2MSD, JD36309-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Arsenic, Aluminum, Cadmium, Chromium, Lead, Nickel, Silver, Vanadium are outside control limits for sample MP30320-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP30320-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- JD36309-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD36309-2 for Thallium: Elevated detection limit due to dilution required for high interfering element.

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Metals Analysis By Method SW846 7470A

Matrix: AQ

Batch ID: MP30335

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD36305-2MS, JD36305-2MSD were used as the QC samples for metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ

Job No: JD36309

Site: TTNJP: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/29/2021 10:49:40

On 12/07/2021, 3 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD36309 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ

Batch ID: OP88920

Sample(s) FA91009-21MS, FA91009-21MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorotridecanoic acid are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Perfluorotridecanoic acid are outside control limits for sample OP88920-MSD. Probable cause is due to sample non-homogeneity.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: JD36309
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/07/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36309-1 TT-SB-13GW

| | | | | | |
|------------------------|----------|-------|-------|------|--------------------|
| Benzo(a)anthracene | 0.76 J | 1.0 | 0.21 | ug/l | SW846 8270E |
| Benzo(a)pyrene | 0.65 J | 1.0 | 0.22 | ug/l | SW846 8270E |
| Benzo(b)fluoranthene | 0.90 J | 1.0 | 0.21 | ug/l | SW846 8270E |
| Benzo(g,h,i)perylene | 0.46 J | 1.0 | 0.35 | ug/l | SW846 8270E |
| Benzo(k)fluoranthene | 0.38 J | 1.0 | 0.21 | ug/l | SW846 8270E |
| Chrysene | 0.64 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Fluoranthene | 1.5 | 1.0 | 0.17 | ug/l | SW846 8270E |
| Indeno(1,2,3-cd)pyrene | 0.57 J | 1.0 | 0.34 | ug/l | SW846 8270E |
| Phenanthrene | 0.65 J | 1.0 | 0.18 | ug/l | SW846 8270E |
| Pyrene | 1.5 | 1.0 | 0.22 | ug/l | SW846 8270E |
| 1,4-Dioxane | 0.0784 J | 0.10 | 0.051 | ug/l | SW846 8270E BY SIM |
| Aluminum | 437 | 200 | | ug/l | SW846 6010D |
| Arsenic | 3.1 | 3.0 | | ug/l | SW846 6010D |
| Calcium | 107000 | 5000 | | ug/l | SW846 6010D |
| Iron | 868 | 100 | | ug/l | SW846 6010D |
| Lead | 135 | 3.0 | | ug/l | SW846 6010D |
| Magnesium | 27000 | 5000 | | ug/l | SW846 6010D |
| Manganese | 96.4 | 15 | | ug/l | SW846 6010D |
| Potassium | 13000 | 10000 | | ug/l | SW846 6010D |
| Sodium | 107000 | 10000 | | ug/l | SW846 6010D |
| Zinc | 100 | 20 | | ug/l | SW846 6010D |

JD36309-1A TT-SB-13GW

| | | | | | |
|---|-------|-----|------|------|----------------|
| Perfluorobutanoic acid ^a | 2.9 J | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| Perfluoropentanoic acid ^a | 1.6 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorohexanoic acid ^a | 1.7 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluoroheptanoic acid ^a | 4.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanoic acid ^a | 23.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorobutanesulfonic acid ^a | 1.1 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| Perfluorooctanesulfonic acid ^a | 2.7 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

JD36309-2 TT-SB-06GW

| | | | | | |
|----------------------|--------|-------|--|------|-------------|
| Aluminum | 596 | 200 | | ug/l | SW846 6010D |
| Arsenic ^b | 30.1 | 15 | | ug/l | SW846 6010D |
| Barium | 577 | 200 | | ug/l | SW846 6010D |
| Calcium | 229000 | 25000 | | ug/l | SW846 6010D |
| Iron | 20200 | 100 | | ug/l | SW846 6010D |
| Lead | 6.2 | 3.0 | | ug/l | SW846 6010D |
| Magnesium | 58800 | 5000 | | ug/l | SW846 6010D |
| Manganese | 6880 | 15 | | ug/l | SW846 6010D |
| Potassium | 19600 | 10000 | | ug/l | SW846 6010D |

Summary of Hits

Job Number: JD36309
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/07/21



| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method | |
|-------------------|-------------------|---|---------------|--------------|-------------|--------------------|--------------------|
| | | Sodium | 308000 | 50000 | ug/l | SW846 6010D | |
| JD36309-2A | TT-SB-06GW | | | | | | |
| | | Perfluorobutanoic acid ^a | 10.4 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| | | Perfluoropentanoic acid ^a | 4.1 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorohexanoic acid ^a | 3.4 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluoroheptanoic acid ^a | 3.2 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorooctanoic acid ^a | 28.8 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorononanoic acid ^a | 1.5 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorobutanesulfonic acid ^a | 1.6 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorooctanesulfonic acid ^a | 2.3 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| JD36309-3 | TT-SB-02GW | | | | | | |
| | | 1,4-Dioxane | 0.117 | 0.11 | 0.053 | ug/l | SW846 8270E BY SIM |
| | | Aluminum | 1920 | 200 | | ug/l | SW846 6010D |
| | | Arsenic | 6.3 | 3.0 | | ug/l | SW846 6010D |
| | | Calcium | 170000 | 5000 | | ug/l | SW846 6010D |
| | | Iron | 5970 | 100 | | ug/l | SW846 6010D |
| | | Lead | 11.9 | 3.0 | | ug/l | SW846 6010D |
| | | Magnesium | 31900 | 5000 | | ug/l | SW846 6010D |
| | | Manganese | 2210 | 15 | | ug/l | SW846 6010D |
| | | Potassium | 14900 | 10000 | | ug/l | SW846 6010D |
| | | Sodium | 118000 | 10000 | | ug/l | SW846 6010D |
| | | Zinc | 60.5 | 20 | | ug/l | SW846 6010D |
| JD36309-3A | TT-SB-02GW | | | | | | |
| | | Perfluorobutanoic acid ^a | 6.4 | 3.7 | 1.9 | ng/l | EPA 537M BY ID |
| | | Perfluoropentanoic acid ^a | 1.8 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorohexanoic acid ^a | 1.8 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluoroheptanoic acid ^a | 2.9 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorooctanoic acid ^a | 61.8 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorononanoic acid ^a | 1.1 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorobutanesulfonic acid ^a | 1.2 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorohexanesulfonic acid ^a | 1.1 J | 1.9 | 0.93 | ng/l | EPA 537M BY ID |
| | | Perfluorooctanesulfonic acid ^a | 2.7 | 1.9 | 0.93 | ng/l | EPA 537M BY ID |

(a) Analysis performed at SGS Orlando, FL.

(b) Elevated detection limit due to dilution required for high interfering element.



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2B187938.D | 1 | 12/11/21 06:55 | JS | n/a | n/a | V2B8533 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone ^a | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane ^a | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 101% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 94% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 3.68 | 76 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176989.D | 1 | 12/13/21 12:28 | KLS | 12/10/21 10:25 | OP37044 | EM7608 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.1 | 0.84 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.1 | 0.91 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.0 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.1 | 2.5 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 5.1 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 5.1 | 1.3 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.0 | 0.91 | ug/l | |
| | 3&4-Methylphenol | ND | 2.0 | 0.90 | ug/l | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 5.1 | 0.98 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 10 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.1 | 1.4 | ug/l | |
| 108-95-2 | Phenol | ND | 2.0 | 0.40 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 5.1 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.1 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.1 | 0.94 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.0 | 0.19 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.0 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone ^a | ND | 2.0 | 0.21 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.0 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine ^a | ND | 2.0 | 0.46 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.1 | 0.29 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | 0.76 | 1.0 | 0.21 | ug/l | J |
| 50-32-8 | Benzo(a)pyrene | 0.65 | 1.0 | 0.22 | ug/l | J |
| 205-99-2 | Benzo(b)fluoranthene | 0.90 | 1.0 | 0.21 | ug/l | J |
| 191-24-2 | Benzo(g,h,i)perylene | 0.46 | 1.0 | 0.35 | ug/l | J |
| 207-08-9 | Benzo(k)fluoranthene | 0.38 | 1.0 | 0.21 | ug/l | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.0 | 0.41 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.0 | 0.47 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.0 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.0 | 0.24 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.1 | 0.35 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.0 | 0.23 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|---|
| Client Sample ID: TT-SB-13GW Lab Sample ID: JD36309-1 Matrix: AQ - Ground Water Method: SW846 8270E SW846 3510C Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/07/21 Date Received: 12/07/21 Percent Solids: n/a |
|---|---|

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 18% | | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 92% | | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 44% | | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 2.82 | 11 | ug/l | J |
| | system artifact | 3.09 | 10 | ug/l | J |
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1

Report of Analysis

| | |
|--|---|
| Client Sample ID: TT-SB-13GW Lab Sample ID: JD36309-1 Matrix: AQ - Ground Water Method: SW846 8270E BY SIM SW846 3510C Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/07/21 Date Received: 12/07/21 Percent Solids: n/a |
|--|---|

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105185.D | 1 | 12/16/21 20:05 | KLS | 12/10/21 10:25 | OP37044A | E4M4888 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 980 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | 0.0784 | 0.10 | 0.051 | ug/l | J |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 65% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 47% | | 25-118% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-13GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-1 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8151A SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155608.D | 1 | 12/16/21 11:56 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 255 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.39 | 0.078 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.078 | 0.049 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.078 | 0.015 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 94% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 89% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-1 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8082A SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475785.D | 1 | 12/14/21 22:34 | TL | 12/10/21 16:40 | OP37056 | GXX7683 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 240 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.42 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.42 | 0.35 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.42 | 0.22 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.42 | 0.19 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.42 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.42 | 0.34 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.42 | 0.13 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.42 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.42 | 0.16 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 70% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 68% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 44% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 38% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|---|---|
| Client Sample ID: TT-SB-13GW Lab Sample ID: JD36309-1 Matrix: AQ - Ground Water Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/07/21 Date Received: 12/07/21 Percent Solids: n/a |
|---|---|

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 437 | 200 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Arsenic | 3.1 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Barium | < 200 | 200 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Beryllium | < 1.0 | 1.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Calcium | 107000 | 5000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Copper | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Iron | 868 | 100 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Lead | 135 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Magnesium | 27000 | 5000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Manganese | 96.4 | 15 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/13/21 | 12/13/21 | SB | SW846 7470A ¹ SW846 7470A ⁴ |
| Nickel | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Potassium | 13000 | 10000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Silver | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Sodium | 107000 | 10000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Zinc | 100 | 20 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |

(1) Instrument QC Batch: MA51583

(2) Instrument QC Batch: MA51617

(3) Prep QC Batch: MP30320

(4) Prep QC Batch: MP30335

RL = Reporting Limit

4.1

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-13GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-1A | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 537M BY ID IN HOUSE | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 ^a | 3Q51153.D | 1 | 12/23/21 23:32 | AFL | 12/20/21 09:00 | F:OP88920 | F:S3Q715 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | | |

PFAS List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|--|-------------------------------|--------|-----|------|-------|---|
| PERFLUOROALKYLCARBOXYLIC ACIDS | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 2.9 | 3.7 | 1.9 | ng/l | J |
| 2706-90-3 | Perfluoropentanoic acid | 1.6 | 1.9 | 0.93 | ng/l | J |
| 307-24-4 | Perfluorohexanoic acid | 1.7 | 1.9 | 0.93 | ng/l | J |
| 375-85-9 | Perfluoroheptanoic acid | 4.9 | 1.9 | 0.93 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 23.9 | 1.9 | 0.93 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROALKYLSULFONIC ACIDS | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 1.1 | 1.9 | 0.93 | ng/l | J |
| 355-46-4 | Perfluorohexanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 2.7 | 1.9 | 0.93 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | ND | 1.9 | 0.93 | ng/l | |
| PERFLUOROOCETANESULFONAMIDES | | | | | | |
| 754-91-6 | PFOSA | ND | 3.7 | 1.9 | ng/l | |
| PERFLUOROOCETANESULFONAMIDOACETIC ACIDS | | | | | | |
| 2355-31-9 | MeFOSAA | ND | 3.7 | 1.9 | ng/l | |
| 2991-50-6 | EtFOSAA | ND | 3.7 | 1.9 | ng/l | |
| FLUOROTELOMER SULFONATES | | | | | | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | ND | 7.4 | 1.9 | ng/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-13GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-1A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 100% | | 35-135% |
| | 13C5-PFPeA | 98% | | 50-150% |
| | 13C5-PFHxA | 97% | | 50-150% |
| | 13C4-PFHpA | 99% | | 50-150% |
| | 13C8-PFOA | 103% | | 50-150% |
| | 13C9-PFNA | 101% | | 50-150% |
| | 13C6-PFDA | 97% | | 50-150% |
| | 13C7-PFUnDA | 88% | | 40-140% |
| | 13C2-PFDoDA | 83% | | 40-140% |
| | 13C2-PFTeDA | 84% | | 30-130% |
| | 13C3-PFBS | 97% | | 50-150% |
| | 13C3-PFHxS | 97% | | 50-150% |
| | 13C8-PFOS | 95% | | 50-150% |
| | 13C8-FOSA | 91% | | 30-130% |
| | d3-MeFOSAA | 99% | | 40-140% |
| | d5-EtFOSAA | 96% | | 40-140% |
| | 13C2-6:2FTS | 99% | | 50-150% |
| | 13C2-8:2FTS | 94% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-2 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2B187939.D | 1 | 12/11/21 07:24 | JS | n/a | n/a | V2B8533 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone ^a | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane ^a | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-06GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-2 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8260D | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 94% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 3.68 | 81 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-2 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176990.D | 1 | 12/13/21 12:57 | KLS | 12/10/21 10:25 | OP37044 | EM7608 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 950 ml | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.3 | 0.86 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.3 | 0.94 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.1 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.3 | 2.6 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 5.3 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 5.3 | 1.4 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.1 | 0.93 | ug/l | |
| | 3&4-Methylphenol | ND | 2.1 | 0.93 | ug/l | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 5.3 | 1.0 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 11 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.2 | 1.5 | ug/l | |
| 108-95-2 | Phenol | ND | 2.1 | 0.41 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 5.3 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.3 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.3 | 0.97 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.1 | 0.20 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.1 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone ^a | ND | 2.1 | 0.22 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.1 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine ^a | ND | 2.1 | 0.47 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.3 | 0.30 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.1 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.1 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.1 | 0.22 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.1 | 0.36 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.1 | 0.22 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.1 | 0.43 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.1 | 0.48 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.1 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.1 | 0.25 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.3 | 0.36 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.1 | 0.24 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-06GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-2 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---|--------|-----|------|-------|---|
| 105-60-2 | Caprolactam | ND | 2.1 | 0.68 | ug/l | |
| 218-01-9 | Chrysene | ND | 1.1 | 0.19 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 2.1 | 0.29 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 2.1 | 0.26 | ug/l | |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | ND | 2.1 | 0.42 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 2.1 | 0.39 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene ^a | ND | 1.1 | 0.58 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene ^a | ND | 1.1 | 0.50 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 2.1 | 0.53 | ug/l | |
| 123-91-1 | 1,4-Dioxane | ND | 1.1 | 0.69 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 1.1 | 0.35 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 5.3 | 0.23 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 2.1 | 0.52 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 2.1 | 0.25 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 2.1 | 0.28 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 2.1 | 0.23 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 2.1 | 1.7 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 1.1 | 0.18 | ug/l | |
| 86-73-7 | Fluorene | ND | 1.1 | 0.18 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.1 | 0.34 | ug/l | |
| 87-68-3 | Hexachlorobutadiene ^a | ND | 1.1 | 0.52 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 11 | 2.9 | ug/l | |
| 67-72-1 | Hexachloroethane ^a | ND | 2.1 | 0.41 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 1.1 | 0.35 | ug/l | |
| 78-59-1 | Isophorone | ND | 2.1 | 0.29 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 1.1 | 0.22 | ug/l | |
| 88-74-4 | 2-Nitroaniline ^a | ND | 5.3 | 0.29 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 5.3 | 0.41 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 5.3 | 0.46 | ug/l | |
| 91-20-3 | Naphthalene | ND | 1.1 | 0.24 | ug/l | |
| 98-95-3 | Nitrobenzene ^a | ND | 2.1 | 0.68 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine ^a | ND | 2.1 | 0.51 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 5.3 | 0.23 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 1.1 | 0.18 | ug/l | |
| 129-00-0 | Pyrene | ND | 1.1 | 0.23 | ug/l | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | ND | 2.1 | 0.39 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|--------|
| 367-12-4 | 2-Fluorophenol | 37% | | 10-90% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-06GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-2 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 26% | | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 106% | | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|------|------------|-------|---|
| | system artifact/aldol-condensation | 3.23 | 5.5 | ug/l | J |
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-06GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-2 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8270E BY SIM SW846 3510C | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105186.D | 1 | 12/16/21 20:26 | KLS | 12/10/21 10:25 | OP37044A | E4M4888 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 950 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 0.11 | 0.053 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 78% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|---|
| Client Sample ID: TT-SB-06GW Lab Sample ID: JD36309-2 Matrix: AQ - Ground Water Method: SW846 8151A SW846 3510C Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/07/21 Date Received: 12/07/21 Percent Solids: n/a |
|---|---|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155609.D | 1 | 12/16/21 12:28 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 240 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.42 | 0.083 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.083 | 0.052 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.083 | 0.016 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 97% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 100% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-06GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-2 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8081B SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 6G81171.D | 1 | 12/14/21 08:22 | CP | 12/10/21 16:40 | OP37055 | G6G2870 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

Pesticide TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|---------------------|--------|--------|--------|-------|---|
| 309-00-2 | Aldrin | ND | 0.0080 | 0.0041 | ug/l | |
| 319-84-6 | alpha-BHC | ND | 0.0080 | 0.0042 | ug/l | |
| 319-85-7 | beta-BHC | ND | 0.0080 | 0.0064 | ug/l | |
| 319-86-8 | delta-BHC | ND | 0.0080 | 0.0053 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.0080 | 0.0048 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | 0.0080 | 0.0039 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | 0.0080 | 0.0034 | ug/l | |
| 60-57-1 | Dieldrin | ND | 0.0080 | 0.0061 | ug/l | |
| 72-54-8 | 4,4'-DDD | ND | 0.0080 | 0.0046 | ug/l | |
| 72-55-9 | 4,4'-DDE | ND | 0.0080 | 0.0040 | ug/l | |
| 50-29-3 | 4,4'-DDT | ND | 0.0080 | 0.0055 | ug/l | |
| 72-20-8 | Endrin | ND | 0.0080 | 0.0048 | ug/l | |
| 1031-07-8 | Endosulfan sulfate | ND | 0.0080 | 0.0044 | ug/l | |
| 7421-93-4 | Endrin aldehyde | ND | 0.0080 | 0.0054 | ug/l | |
| 53494-70-5 | Endrin ketone | ND | 0.0080 | 0.0050 | ug/l | |
| 959-98-8 | Endosulfan-I | ND | 0.0080 | 0.0042 | ug/l | |
| 33213-65-9 | Endosulfan-II | ND | 0.0080 | 0.0039 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.0080 | 0.0036 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.0080 | 0.0048 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 0.016 | 0.0054 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 0.20 | 0.13 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 81% | | 10-190% |
| 877-09-8 | Tetrachloro-m-xylene | 74% | | 10-190% |
| 2051-24-3 | Decachlorobiphenyl | 24% | | 10-156% |
| 2051-24-3 | Decachlorobiphenyl | 25% | | 10-156% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-06GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-2 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------------------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 596 | 200 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Arsenic ^a | 30.1 | 15 | ug/l | 5 | 12/13/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Barium | 577 | 200 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Beryllium | < 1.0 | 1.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Calcium | 229000 | 25000 | ug/l | 5 | 12/13/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Copper | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Iron | 20200 | 100 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Lead | 6.2 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Magnesium | 58800 | 5000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Manganese | 6880 | 15 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/13/21 | 12/13/21 | SB | SW846 7470A ¹ SW846 7470A ⁵ |
| Nickel | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Potassium | 19600 | 10000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Silver | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Sodium | 308000 | 50000 | ug/l | 5 | 12/13/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Thallium ^a | < 50 | 50 | ug/l | 5 | 12/13/21 | 12/16/21 | ND | SW846 6010D ³ SW846 3010A ⁴ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |
| Zinc | < 20 | 20 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ⁴ |

- (1) Instrument QC Batch: MA51583
- (2) Instrument QC Batch: MA51610
- (3) Instrument QC Batch: MA51617
- (4) Prep QC Batch: MP30320
- (5) Prep QC Batch: MP30335

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

4.3

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-06GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-2A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 88% | | 35-135% |
| | 13C5-PFPeA | 85% | | 50-150% |
| | 13C5-PFHxA | 83% | | 50-150% |
| | 13C4-PFHpA | 84% | | 50-150% |
| | 13C8-PFOA | 91% | | 50-150% |
| | 13C9-PFNA | 91% | | 50-150% |
| | 13C6-PFDA | 87% | | 50-150% |
| | 13C7-PFUnDA | 79% | | 40-140% |
| | 13C2-PFDoDA | 76% | | 40-140% |
| | 13C2-PFTeDA | 69% | | 30-130% |
| | 13C3-PFBS | 86% | | 50-150% |
| | 13C3-PFHxS | 87% | | 50-150% |
| | 13C8-PFOS | 85% | | 50-150% |
| | 13C8-FOSA | 59% | | 30-130% |
| | d3-MeFOSAA | 100% | | 40-140% |
| | d5-EtFOSAA | 95% | | 40-140% |
| | 13C2-6:2FTS | 95% | | 50-150% |
| | 13C2-8:2FTS | 90% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8260D | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2B187940.D | 1 | 12/11/21 07:53 | JS | n/a | n/a | V2B8533 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-------------------------------|--------|------|------|-------|---|
| 67-64-1 | Acetone ^a | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.48 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane ^a | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) ^a | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-02GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-3 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8260D | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TCL List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| | m,p-Xylene | ND | 1.0 | 0.78 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.59 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7 | Dibromofluoromethane | 102% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 94% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
| | system artifact | 3.68 | 120 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02GW | Date Sampled: | 12/07/21 |
| Lab Sample ID: | JD36309-3 | Date Received: | 12/07/21 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | SW846 8270E SW846 3510C | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | M176991.D | 1 | 12/13/21 13:27 | KLS | 12/10/21 10:25 | OP37044 | EM7608 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 950 ml | 1.0 ml |
| Run #2 | | |

ABN TCL List (SOM0 2.0)

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|--|--------|-----|------|-------|---|
| 95-57-8 | 2-Chlorophenol | ND | 5.3 | 0.86 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 5.3 | 0.94 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 2.1 | 1.3 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 5.3 | 2.6 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol ^a | ND | 5.3 | 1.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol ^a | ND | 5.3 | 1.4 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 2.1 | 0.93 | ug/l | |
| | 3&4-Methylphenol | ND | 2.1 | 0.93 | ug/l | |
| 88-75-5 | 2-Nitrophenol ^a | ND | 5.3 | 1.0 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 11 | 1.2 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 4.2 | 1.5 | ug/l | |
| 108-95-2 | Phenol | ND | 2.1 | 0.41 | ug/l | |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol ^a | ND | 5.3 | 1.5 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 5.3 | 1.4 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 5.3 | 0.97 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 1.1 | 0.20 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 1.1 | 0.14 | ug/l | |
| 98-86-2 | Acetophenone ^a | ND | 2.1 | 0.22 | ug/l | |
| 120-12-7 | Anthracene | ND | 1.1 | 0.22 | ug/l | |
| 1912-24-9 | Atrazine ^a | ND | 2.1 | 0.47 | ug/l | |
| 100-52-7 | Benzaldehyde | ND | 5.3 | 0.30 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 1.1 | 0.21 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 1.1 | 0.22 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 1.1 | 0.22 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 1.1 | 0.36 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 1.1 | 0.22 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 2.1 | 0.43 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 2.1 | 0.48 | ug/l | |
| 92-52-4 | 1,1'-Biphenyl | ND | 1.1 | 0.22 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 2.1 | 0.25 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 5.3 | 0.36 | ug/l | |
| 86-74-8 | Carbazole | ND | 1.1 | 0.24 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|-------------------------|
| Client Sample ID: TT-SB-02GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-3 | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: SW846 8270E SW846 3510C | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

ABN TCL List (SOM0 2.0)

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 4165-62-2 | Phenol-d5 | 26% | | 10-101% |
| 118-79-6 | 2,4,6-Tribromophenol | 108% | | 23-155% |
| 4165-60-0 | Nitrobenzene-d5 | 74% | | 25-141% |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 35-126% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 15-139% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|------------------------------------|------|------------|-------|---|
| | system artifact/aldol-condensation | 3.23 | 5.1 | ug/l | J |
| | Total TIC, Semi-Volatile | | 0 | ug/l | |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-02GW | |
| Lab Sample ID: | JD36309-3 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8270E BY SIM SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|-----|----------------|------------|------------------|
| Run #1 | 4M105187.D | 1 | 12/16/21 20:47 | KLS | 12/10/21 10:25 | OP37044A | E4M4888 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 950 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | 0.117 | 0.11 | 0.053 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 21-121% | | |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 27-107% | | |
| 1718-51-0 | Terphenyl-d14 | 77% | | 25-118% | | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|---|
| Client Sample ID: TT-SB-02GW Lab Sample ID: JD36309-3 Matrix: AQ - Ground Water Method: SW846 8151A SW846 3510C Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | Date Sampled: 12/07/21 Date Received: 12/07/21 Percent Solids: n/a |
|---|---|

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | OA155610.D | 1 | 12/16/21 13:33 | CP | 12/10/21 20:45 | OP37027 | GOA5503 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 260 ml | 2.0 ml |
| Run #2 | | |

Herbicide List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|-------|-------|-------|---|
| 94-75-7 | 2,4-D | ND | 0.38 | 0.077 | ug/l | |
| 93-72-1 | 2,4,5-TP (Silvex) | ND | 0.077 | 0.048 | ug/l | |
| 93-76-5 | 2,4,5-T | ND | 0.077 | 0.015 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|----------------------|--------|--------|---------|
| 19719-28-9 | 2,4-DCAA | 120% | | 10-200% |
| 19719-28-9 | 2,4-DCAA | 133% | | 10-200% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | | |
|-------------------|---|-------------------------|
| Client Sample ID: | TT-SB-02GW | |
| Lab Sample ID: | JD36309-3 | Date Sampled: 12/07/21 |
| Matrix: | AQ - Ground Water | Date Received: 12/07/21 |
| Method: | SW846 8082A SW846 3510C | Percent Solids: n/a |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-------------|----|----------------|----|----------------|------------|------------------|
| Run #1 | XX2475787.D | 1 | 12/14/21 23:09 | TL | 12/10/21 16:40 | OP37056 | GXX7683 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 250 ml | 2.0 ml |
| Run #2 | | |

PCB List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|--------------|--------|------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | ND | 0.40 | 0.16 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND | 0.40 | 0.34 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND | 0.40 | 0.21 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND | 0.40 | 0.18 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND | 0.40 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND | 0.40 | 0.33 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND | 0.40 | 0.12 | ug/l | |
| 11100-14-4 | Aroclor 1268 | ND | 0.40 | 0.14 | ug/l | |
| 37324-23-5 | Aroclor 1262 | ND | 0.40 | 0.15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 877-09-8 | Tetrachloro-m-xylene | 80% | | 10-174% |
| 877-09-8 | Tetrachloro-m-xylene | 78% | | 10-174% |
| 2051-24-3 | Decachlorobiphenyl | 40% | | 10-151% |
| 2051-24-3 | Decachlorobiphenyl | 37% | | 10-151% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.5

Report of Analysis

| | |
|---|--------------------------------|
| Client Sample ID: TT-SB-02GW | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-3 | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | |

Total Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|-----------|--------|-------|-------|----|----------|-------------|--------|---|
| Aluminum | 1920 | 200 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Antimony | < 6.0 | 6.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Arsenic | 6.3 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Barium | < 200 | 200 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Beryllium | < 1.0 | 1.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Cadmium | < 3.0 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Calcium | 170000 | 5000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Chromium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Cobalt | < 50 | 50 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Copper | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Iron | 5970 | 100 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Lead | 11.9 | 3.0 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Magnesium | 31900 | 5000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Manganese | 2210 | 15 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Mercury | < 0.20 | 0.20 | ug/l | 1 | 12/13/21 | 12/13/21 | SB | SW846 7470A ¹ SW846 7470A ⁴ |
| Nickel | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Potassium | 14900 | 10000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Selenium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Silver | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Sodium | 118000 | 10000 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Thallium | < 10 | 10 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Vanadium | < 50 | 50 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |
| Zinc | 60.5 | 20 | ug/l | 1 | 12/13/21 | 12/16/21 | ND | SW846 6010D ² SW846 3010A ³ |

(1) Instrument QC Batch: MA51583

(2) Instrument QC Batch: MA51617

(3) Prep QC Batch: MP30320

(4) Prep QC Batch: MP30335

RL = Reporting Limit

4.5

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-02GW | | Date Sampled: 12/07/21 |
| Lab Sample ID: JD36309-3A | | Date Received: 12/07/21 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 537M BY ID IN HOUSE | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

PFAS List

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 86% | | 35-135% |
| | 13C5-PFPeA | 82% | | 50-150% |
| | 13C5-PFHxA | 80% | | 50-150% |
| | 13C4-PFHpA | 83% | | 50-150% |
| | 13C8-PFOA | 87% | | 50-150% |
| | 13C9-PFNA | 89% | | 50-150% |
| | 13C6-PFDA | 87% | | 50-150% |
| | 13C7-PFUnDA | 75% | | 40-140% |
| | 13C2-PFDoDA | 59% | | 40-140% |
| | 13C2-PFTeDA | 36% | | 30-130% |
| | 13C3-PFBS | 83% | | 50-150% |
| | 13C3-PFHxS | 84% | | 50-150% |
| | 13C8-PFOS | 81% | | 50-150% |
| | 13C8-FOSA | 36% | | 30-130% |
| | d3-MeFOSAA | 101% | | 40-140% |
| | d5-EtFOSAA | 89% | | 40-140% |
| | 13C2-6:2FTS | 92% | | 50-150% |
| | 13C2-8:2FTS | 91% | | 50-150% |

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6



This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Chain of Custody (SGS Orlando, FL)



GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #
SGS Quote #
Bottle Order Contest # JS-1321-2411
SGS Job # JD36309

EHSA-QAC-0023-04-FORM-Standard COC

| | | | | | | | | |
|---|--|---|--|--|--|--|--|--|
| Client / Reporting Information | | Project Information | | | Requested Analysis | | Matrix Codes | |
| Company Name: <u>TETRA TECH</u> | | Project Name: <u>2ND AVE & 33RD ST.</u> | | | V8260 TLL T20 A68270 TLL T20 B8270 SW 1,4-Diox P8082, PCB11, Peat TLL H8151 STD MTRC LCID 537 NYZ1 | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank | |
| Street Address: <u>6 CENTURY DR.</u> | | Street: <u>BROOKLYN NY</u> | | | | | | |
| City: <u>PASSAIC NJ</u> State: <u>07954</u> Zip: <u></u> | | Billing Information (if different from Report to) | | | | | | |
| Project Contact: <u>BOB CANTAGALLO ROBERT.CANTAGALLO@TETRA TECH.COM</u> | | Company Name: | | | | | | |
| Phone # <u>(913) 630-4045</u> | | Client Purchase Order # | | | | | | |
| Sampler(s) Name(s): <u>A. VANU / CHRIS BEERS</u> | | Project Manager: | | | | | | |
| Attention: | | | | | | | | |

| SGS Sample # | Field ID / Point of Collection | MEO/IDI Viol # | Collection | | Grab (G) Core (C) | Source Characterized (Y/N) | Matrix | # of bottles | Number of preserved Bottles | | | | | | | | | | LAB USE ONLY | | | | | |
|--------------|--------------------------------|----------------|------------|------|-------------------|----------------------------|--------|--------------|-----------------------------|-----|-----|-------|---------|----------|-------|-----------|--|--|--------------|--|--|--|-----|------|
| | | | Date | Time | | | | | HD | NO3 | NO2 | H2SO4 | NO3/NO2 | DI Water | MEDIA | ENCLOSURE | | | | | | | | |
| 1 | TT-SB-13GW | 0 | 12/07/21 | 1320 | CB | G | GW | 14 | 3 | 1 | 10 | | | | | | | | | | | | E87 | |
| 2 | TT-SB-06GW | 0 | 12/07/21 | 1420 | CB | G | GW | 14 | 3 | 1 | 10 | | | | | | | | | | | | | V990 |
| 3 | TT-SB-02GW | 0 | 12/07/21 | 1530 | CB | G | GW | 14 | 3 | 1 | 10 | | | | | | | | | | | | | 548 |

| | | | | | |
|--|--|--|---|--|---|
| Turn Around Time (Business Days) | | Deliverable | | Comments / Special Instructions | |
| <input type="checkbox"/> 10 Business Days <input type="checkbox"/> 5 Business Days <input type="checkbox"/> 3 Business Days <input type="checkbox"/> 2 Business Days <input type="checkbox"/> 1 Business Day <input type="checkbox"/> Other _____ | Approved By (SGS PM): / Date: _____ _____ | <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NJ Reduced (Level 3) <input type="checkbox"/> Full Tier 1 (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ DKQP | <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> MA MCP Criteria <input type="checkbox"/> CT RCP Criteria <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format | <input type="checkbox"/> DOD-QSM5 | Initial Assessment <u>BB-ZIS</u> Label Verification _____ • 250 ml Ex bottles 4x http://www.sgs.com/en/terms-and-conditions |

| | | | | | |
|--|-----------------------------------|-------------------------------------|---|--|---------------------------------|
| Sample Custody must be documented below each time samples change possession, including courier delivery. | | | | | |
| Relinquished By: <u>AJUP</u> | Date / Time: <u>12/07/21 1740</u> | Received By: <u>Christian T. J.</u> | Relinquished By: | Date / Time: | Received By: |
| Relinquished By: | Date / Time: | Received By: | Relinquished By: | Date / Time: | Received By: |
| Relinquished By: | Date / Time: | Received By: | Custody Seal # | <input type="checkbox"/> Intact <input type="checkbox"/> Not intact | Absent <input type="checkbox"/> |
| | | | Therm ID: On Ice <input checked="" type="checkbox"/> Cooler Temp: °C <u>3.2, 3.2, 3.0</u> | | |

5.1

SGS Sample Receipt Summary

Job Number: JD36309

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/7/2021 5:48:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2); Cooler 2: (3.2); Cooler 3: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.8); Cooler 2: (1.8); Cooler 3: (1.6);

| <u>Cooler Security</u> | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 3 | |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|-----------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) |
|--------------------|-----------------|-----------------|------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD36309: Chain of Custody

Page 2 of 3

5.1

Job Change Order: JD36309

Requested Date: 12/13/2021 **Received Date:** 12/7/2021
Account Name: Tetra Tech **Due Date:** 12/13/2021
Project Description: 2nd Avenue and 33-39th Street, Brooklyn, NY **Deliverable:** NYASPB
C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 7

=====
Sample #: JD36309-ALL **Change:**
Dept: Please move project to TTNJP90692 and re-sub to ALSE.
TAT: 7

=====
TAT: 7
=====

JD36309: Chain of Custody
Page 3 of 3

Above Changes Per: Jadon Schiller **Date/Time:** 12/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.



CHAIN OF CUSTODY
 SGS North America Inc. - Dayton
 2235 Route 130, Dayton, NJ 08510
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.sgs.com/ehsusa

| | | | | | | | |
|---|-----------------------------|--|---------------------------|---|---|---|-----------------|
| Client / Reporting Information | | Project Information | | Requested Analysis | | Matrix Codes | |
| Company Name | | Project Name | | SGS Quote # | | SGS Job # | |
| Street Address | | 2nd Avenue and 33-39th Street, Brooklyn, NY | | JD36309 | | DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SS - Sediment O - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank | |
| City State Zip | | Billing Information (if different from Report to) | | LCID36309V1 LCMS-HDAY | | LAB USE ONLY | |
| City State Zip | | Company Name | | | | | |
| Project Contact E-mail | | Project # | | INITIAL ASSESSMENT <i>100</i> LABEL VERIFICATION <i>SM</i> | | | |
| Phone # | | Client Purchase Order # | | | | | |
| Sample(s) Name(s) | | Project Manager | | Comments / Special Instructions | | | |
| CB | | Attention: | | | | | |
| SGS Sample # | | Collection | | Number of preserved bottles | | | |
| Field ID / Point of Collection | | METHOD | Date | Time | Sampled by | Matrix | # of bottles |
| 1A | TT-SB-13GW | | 12/7/21 | 1:20:00 PM | CB | AQ | |
| 2A | TT-SB-06GW | | 12/7/21 | 2:20:00 PM | CB | AQ | |
| 3A | TT-SB-02GW | | 12/7/21 | 3:35:00 PM | CB | AQ | |
| Turnaround Time (Business days) | | Approved By (SGS PM) / Date: | | Data Deliverable Information | | | |
| <input type="checkbox"/> Standard 10 Business Days <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> Other 3/14/1900 | | <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Commercial "C" | | <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other NYASPB | | Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Package flow data | |
| Emergency & Rush: T/A data available via Label. Approval needed for RUSH/Emergency TAT | | Sample Custody must be documented below each time samples change possession, including courier delivery. | | http://www.sgs.com/en/terms-and-conditions | | | |
| Relinquished by: <i>Michael Wagner</i> | Date / Time: <i>12/8/21</i> | Received By: <i>1</i> | Relinquished By: <i>2</i> | Date / Time: <i>12/8/21</i> | Received By: <i>3</i> | | |
| Relinquished by: <i>3</i> | Date / Time: | Received By: <i>3</i> | Relinquished By: <i>4</i> | Date / Time: | Received By: <i>4</i> | | |
| Relinquished by: <i>5</i> | Date / Time: | Received By: <i>5</i> | Dust/Sol Seal # | <input type="checkbox"/> Insect <input type="checkbox"/> Mold Insect <input type="checkbox"/> Absorb | <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> Therm. ID | On Ice | Cooler Temp. °C |

0.4 ER#7



SGS Sample Receipt Summary

Job Number: JD36309

Client: SGS NJ

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/9/2021 3:30:00 PM

Delivery Method: FX

Airbill #'s: 5272 0636 9954

Therm ID: IR 1;

Therm CF: 0.2;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.2);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u> | |
| 5. Cooler media | <u>Ice (Bag)</u> | |

Trip Blank Information

Y or N

N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W or S</u> | | <u>N/A</u> |
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | <u>Intact</u> | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: STEPHENP

Date: 12/9/2021 3:30:00 PM

Reviewer: _____

Date: _____

JD36309: Chain of Custody

Page 2 of 2

5.2



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Test results relate only to samples analyzed.

Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

2nd Avenue and 33-39th Street, Brooklyn, NY

SGS Job Number: JD36521

Sampling Date: 12/08/21

Report to:

Tetra Tech

Robert.Cantagallo@tetrattech.com

ATTN: Bob Cantagallo

Total number of pages in report: 62



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499



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Sample Summary

Tetra Tech

Job No: JD36521

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

| | | | | | | | |
|------------|----------|-------|----|----------|-----|-------------------|------------|
| JD36521-1 | 12/08/21 | 14:50 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-33SV |
| JD36521-2 | 12/08/21 | 14:53 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-32SV |
| JD36521-3 | 12/08/21 | 14:57 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-25SV |
| JD36521-4 | 12/08/21 | 15:00 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-24SV |
| JD36521-5 | 12/08/21 | 15:52 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-39SV |
| JD36521-6 | 12/08/21 | 15:56 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-37SV |
| JD36521-7 | 12/08/21 | 16:26 | AV | 12/09/21 | AIR | Ambient Air Comp. | TT-SB-A |
| JD36521-8 | 12/08/21 | 16:29 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-19SV |
| JD36521-9 | 12/08/21 | 16:32 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-14SV |
| JD36521-10 | 12/08/21 | 16:49 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-16SV |
| JD36521-11 | 12/08/21 | 16:56 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-36SV |
| JD36521-12 | 12/08/21 | 17:00 | AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-02SV |



Sample Summary (continued)

Tetra Tech

Job No: JD36521

2nd Avenue and 33-39th Street, Brooklyn, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------------------|------------------|
| JD36521-13 | 12/08/21 | 17:39 AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-17SV |
| JD36521-14 | 12/08/21 | 17:46 AV | 12/09/21 | AIR | Soil Vapor Comp. | TT-SB-21SV |

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech

Job No JD36521

Site: 2nd Avenue and 33-39th Street, Brooklyn, NY

Report Date 12/17/2021 12:24:50 P

On 12/09/2021, 14 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD36521 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V5W1936

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD36496-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 2,2,4-Trimethylpentane, 4-Ethyltoluene, Benzene, Cyclohexane, Heptane, m,p-Xylene, Methyl Tert Butyl Ether, o-Xylene, Toluene, Xylenes (total) are outside control limits for sample JD36496-1DUP.

Matrix: AIR

Batch ID: V5W1937

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD36521-12DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for 2-Hexanone, Hexane are outside control limits for sample JD36521-12DUP.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Friday, December 17, 2021

Page 1 of 1

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|-------------------------|------------------|-----------------|-------|-------|-------|--------|
| JD36521-1 | TT-SB-33SV | | | | | |
| Acetone (2-Propanone) | | 20.7 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 1.6 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 25.7 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloromethane | | 0.15 J | 0.20 | 0.015 | ppbv | TO-15 |
| Cyclohexane | | 108 | 2.0 | 0.22 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.20 | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | | 2.0 | 0.50 | 0.22 | ppbv | TO-15 |
| 4-Ethyltoluene | | 4.2 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | | 103 | 2.0 | 0.18 | ppbv | TO-15 |
| Hexane | | 21.8 | 0.20 | 0.011 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.48 | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | | 0.21 | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | | 4.4 | 0.20 | 0.042 | ppbv | TO-15 |
| Propylene | | 34.1 | 0.50 | 0.016 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 2.2 | 0.20 | 0.033 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | | 3.3 | 0.20 | 0.034 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 0.91 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.41 | 0.040 | 0.031 | ppbv | TO-15 |
| Toluene | | 13.7 | 0.20 | 0.014 | ppbv | TO-15 |
| m,p-Xylene | | 21.0 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 10.4 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 31.4 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 49.2 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 5.1 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 80.0 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloromethane | | 0.31 J | 0.41 | 0.031 | ug/m3 | TO-15 |
| Cyclohexane | | 372 | 6.9 | 0.76 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 0.99 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 3.8 | 0.94 | 0.41 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 21 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 422 | 8.2 | 0.74 | ug/m3 | TO-15 |
| Hexane | | 76.8 | 0.70 | 0.039 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 1.2 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methylene chloride | | 0.73 | 0.69 | 0.052 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 13 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Propylene | | 58.6 | 0.86 | 0.027 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 11 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 16 | 0.98 | 0.17 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 2.8 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 2.8 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Toluene | | 51.6 | 0.75 | 0.053 | ug/m3 | TO-15 |
| m,p-Xylene | | 91.2 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 45.2 | 0.87 | 0.074 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|-------------------------|------------------|-----------------|-------|-------|-------|--------|
| Xylenes (total) | | 136 | 0.87 | 0.074 | ug/m3 | TO-15 |
| JD36521-2 | TT-SB-32SV | | | | | |
| Acetone (2-Propanone) | | 5.2 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 0.39 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 1.9 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroethane | | 0.66 | 0.20 | 0.048 | ppbv | TO-15 |
| Chloroform | | 2.0 | 0.20 | 0.020 | ppbv | TO-15 |
| Chloromethane | | 0.59 | 0.20 | 0.015 | ppbv | TO-15 |
| Carbon tetrachloride | | 0.24 | 0.040 | 0.024 | ppbv | TO-15 |
| Cyclohexane | | 0.39 | 0.20 | 0.022 | ppbv | TO-15 |
| 1,1-Dichloroethane | | 0.28 | 0.20 | 0.012 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.29 | 0.20 | 0.017 | ppbv | TO-15 |
| o-Dichlorobenzene | | 0.14 | 0.040 | 0.022 | ppbv | TO-15 |
| Ethanol | | 1.6 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.27 | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 1.2 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.55 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | | 0.19 J | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | | 0.32 | 0.20 | 0.011 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.36 | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | | 0.25 | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | | 2.3 | 0.20 | 0.042 | ppbv | TO-15 |
| Propylene | | 9.9 | 0.50 | 0.016 | ppbv | TO-15 |
| Styrene | | 0.21 | 0.20 | 0.019 | ppbv | TO-15 |
| 1,1,1-Trichloroethane | | 3.9 | 0.10 | 0.033 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.53 | 0.20 | 0.033 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.15 J | 0.20 | 0.034 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | | 0.14 J | 0.20 | 0.022 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 1.2 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.78 | 0.040 | 0.031 | ppbv | TO-15 |
| Tetrahydrofuran | | 0.12 J | 0.20 | 0.050 | ppbv | TO-15 |
| Toluene | | 0.90 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichloroethylene | | 0.13 | 0.040 | 0.019 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.17 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | | 1.1 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.50 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 1.6 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 12 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 1.2 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 5.9 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroethane | | 1.7 | 0.53 | 0.13 | ug/m3 | TO-15 |
| Chloroform | | 9.8 | 0.98 | 0.098 | ug/m3 | TO-15 |
| Chloromethane | | 1.2 | 0.41 | 0.031 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|------|-------|-------|--------|
| Carbon tetrachloride | | 1.5 | 0.25 | 0.15 | ug/m3 | TO-15 |
| Cyclohexane | | 1.3 | 0.69 | 0.076 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 1.1 | 0.81 | 0.049 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.4 | 0.99 | 0.084 | ug/m3 | TO-15 |
| o-Dichlorobenzene | | 0.84 | 0.24 | 0.13 | ug/m3 | TO-15 |
| Ethanol | | 3.0 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 1.2 | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 4.3 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 2.7 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 0.78 J | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 1.1 | 0.70 | 0.039 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 0.88 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methylene chloride | | 0.87 | 0.69 | 0.052 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 6.8 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Propylene | | 17 | 0.86 | 0.027 | ug/m3 | TO-15 |
| Styrene | | 0.89 | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 21 | 0.55 | 0.18 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 2.6 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.74 J | 0.98 | 0.17 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 0.65 J | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 3.6 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 5.3 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Tetrahydrofuran | | 0.35 J | 0.59 | 0.15 | ug/m3 | TO-15 |
| Toluene | | 3.4 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichloroethylene | | 0.70 | 0.21 | 0.10 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 0.96 | 0.56 | 0.16 | ug/m3 | TO-15 |
| m,p-Xylene | | 4.8 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 2.2 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 6.9 | 0.87 | 0.074 | ug/m3 | TO-15 |

JD36521-3 TT-SB-25SV

| | | | | | | |
|-------------------------|--|--------|------|-------|------|-------|
| Acetone (2-Propanone) | | 23.9 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 0.22 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 0.51 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroform | | 0.10 J | 0.20 | 0.020 | ppbv | TO-15 |
| Cyclohexane | | 2.3 | 0.20 | 0.022 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.32 | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | | 11.5 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.14 J | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 2.3 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.20 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | | 0.42 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | | 0.46 | 0.20 | 0.011 | ppbv | TO-15 |
| 2-Hexanone | | 1.9 | 0.20 | 0.036 | ppbv | TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-------|-------|--------|
| Isopropyl Alcohol | | 2.6 | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | | 0.23 | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | | 23.8 | 0.20 | 0.042 | ppbv | TO-15 |
| Methyl Tert Butyl Ether | | 0.76 | 0.20 | 0.019 | ppbv | TO-15 |
| Propylene | | 6.3 | 0.50 | 0.016 | ppbv | TO-15 |
| Styrene | | 0.14 J | 0.20 | 0.019 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.19 J | 0.20 | 0.033 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | | 0.14 J | 0.20 | 0.022 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 0.92 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 1.2 | 0.040 | 0.031 | ppbv | TO-15 |
| Toluene | | 0.46 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichloroethylene | | 2.2 | 0.040 | 0.019 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.18 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | | 0.43 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.21 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 0.63 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 56.8 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 0.70 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 1.6 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroform | | 0.49 J | 0.98 | 0.098 | ug/m3 | TO-15 |
| Cyclohexane | | 7.9 | 0.69 | 0.076 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.6 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 21.7 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.61 J | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 8.3 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 0.98 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 1.7 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 1.6 | 0.70 | 0.039 | ug/m3 | TO-15 |
| 2-Hexanone | | 7.8 | 0.82 | 0.15 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 6.4 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methylene chloride | | 0.80 | 0.69 | 0.052 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 70.2 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Methyl Tert Butyl Ether | | 2.7 | 0.72 | 0.069 | ug/m3 | TO-15 |
| Propylene | | 11 | 0.86 | 0.027 | ug/m3 | TO-15 |
| Styrene | | 0.60 J | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.93 J | 0.98 | 0.16 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 0.65 J | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 2.8 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 8.1 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Toluene | | 1.7 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichloroethylene | | 12 | 0.21 | 0.10 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 1.0 | 0.56 | 0.16 | ug/m3 | TO-15 |
| m,p-Xylene | | 1.9 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 0.91 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 2.7 | 0.87 | 0.074 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JD36521-4 TT-SB-24SV

| | | | | | |
|----------------------------|--------|-------|--------|-------|-------|
| Acetone (2-Propanone) | 31.9 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | 0.97 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | 131 | 2.0 | 0.24 | ppbv | TO-15 |
| Chloromethane | 0.20 | 0.20 | 0.015 | ppbv | TO-15 |
| Cyclohexane | 16.4 | 0.20 | 0.022 | ppbv | TO-15 |
| Dichlorodifluoromethane | 0.39 | 0.20 | 0.017 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | 0.16 J | 0.20 | 0.0073 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | 1.5 | 0.040 | 0.012 | ppbv | TO-15 |
| Ethanol | 5.6 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | 0.23 | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | 2.9 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | 0.43 | 0.20 | 0.030 | ppbv | TO-15 |
| Freon 114 | 0.16 | 0.10 | 0.019 | ppbv | TO-15 |
| Heptane | 1.2 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | 1.5 | 0.20 | 0.011 | ppbv | TO-15 |
| 2-Hexanone | 3.3 | 0.20 | 0.036 | ppbv | TO-15 |
| Isopropyl Alcohol | 0.50 | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | 0.65 | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | 31.5 | 0.20 | 0.042 | ppbv | TO-15 |
| Styrene | 0.13 J | 0.20 | 0.019 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | 0.33 | 0.20 | 0.033 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | 16.2 | 0.20 | 0.022 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | 1.4 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | 0.69 | 0.040 | 0.031 | ppbv | TO-15 |
| Toluene | 0.73 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichlorofluoromethane | 0.11 | 0.10 | 0.028 | ppbv | TO-15 |
| Vinyl chloride | 0.34 | 0.040 | 0.022 | ppbv | TO-15 |
| m,p-Xylene | 0.94 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | 0.40 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | 1.3 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | 75.8 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | 3.1 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | 408 | 6.2 | 0.75 | ug/m3 | TO-15 |
| Chloromethane | 0.41 | 0.41 | 0.031 | ug/m3 | TO-15 |
| Cyclohexane | 56.5 | 0.69 | 0.076 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | 1.9 | 0.99 | 0.084 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | 0.63 J | 0.79 | 0.029 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | 5.9 | 0.16 | 0.048 | ug/m3 | TO-15 |
| Ethanol | 11 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | 1.0 | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | 10 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | 2.1 | 0.98 | 0.15 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|------|-------|-------|--------|
| Freon 114 | | 1.1 | 0.70 | 0.13 | ug/m3 | TO-15 |
| Heptane | | 4.9 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 5.3 | 0.70 | 0.039 | ug/m3 | TO-15 |
| 2-Hexanone | | 13 | 0.82 | 0.15 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 1.2 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methylene chloride | | 2.3 | 0.69 | 0.052 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 92.9 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Styrene | | 0.55 J | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 1.6 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 75.7 | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 4.2 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 4.7 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Toluene | | 2.8 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 0.62 | 0.56 | 0.16 | ug/m3 | TO-15 |
| Vinyl chloride | | 0.87 | 0.10 | 0.056 | ug/m3 | TO-15 |
| m,p-Xylene | | 4.1 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 1.7 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 5.6 | 0.87 | 0.074 | ug/m3 | TO-15 |

JD36521-5 TT-SB-39SV

| | | | | | | |
|----------------------------|--|---------|-------|--------|------|-------|
| Acetone (2-Propanone) | | 36.2 | 0.16 | 0.090 | ppbv | TO-15 |
| Benzene | | 14.2 | 0.16 | 0.0095 | ppbv | TO-15 |
| Carbon disulfide | | 153 | 8.0 | 0.94 | ppbv | TO-15 |
| Chloromethane | | 0.13 J | 0.16 | 0.012 | ppbv | TO-15 |
| Cyclohexane | | 39.0 | 8.0 | 0.88 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 1.0 | 0.032 | 0.013 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.35 | 0.16 | 0.013 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 1.8 | 0.16 | 0.0058 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 1.2 | 0.032 | 0.0094 | ppbv | TO-15 |
| Ethanol | | 3.7 | 0.40 | 0.17 | ppbv | TO-15 |
| Ethylbenzene | | 0.66 | 0.16 | 0.012 | ppbv | TO-15 |
| Ethyl Acetate | | 4.2 | 0.16 | 0.030 | ppbv | TO-15 |
| Heptane | | 29.4 | 0.16 | 0.014 | ppbv | TO-15 |
| Hexane | | 58.5 | 8.0 | 0.42 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.56 | 0.16 | 0.052 | ppbv | TO-15 |
| Methylene chloride | | 0.31 | 0.16 | 0.012 | ppbv | TO-15 |
| Methyl ethyl ketone | | 27.7 | 0.16 | 0.034 | ppbv | TO-15 |
| Styrene | | 0.10 J | 0.16 | 0.015 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.25 | 0.16 | 0.026 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.093 J | 0.16 | 0.027 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | | 12.5 | 0.16 | 0.017 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 1.0 | 0.16 | 0.011 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.74 | 0.032 | 0.025 | ppbv | TO-15 |
| Toluene | | 3.0 | 0.16 | 0.012 | ppbv | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|----------------------------|------------------|-----------------|-------|-------|-------|--------|
| Trichlorofluoromethane | | 0.081 | 0.080 | 0.022 | ppbv | TO-15 |
| Vinyl chloride | | 37.3 | 0.032 | 0.018 | ppbv | TO-15 |
| m,p-Xylene | | 1.5 | 0.16 | 0.027 | ppbv | TO-15 |
| Xylenes (total) | | 1.5 | 0.16 | 0.014 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 86.0 | 0.38 | 0.21 | ug/m3 | TO-15 |
| Benzene | | 45.4 | 0.51 | 0.030 | ug/m3 | TO-15 |
| Carbon disulfide | | 476 | 25 | 2.9 | ug/m3 | TO-15 |
| Chloromethane | | 0.27 J | 0.33 | 0.025 | ug/m3 | TO-15 |
| Cyclohexane | | 134 | 28 | 3.0 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 4.0 | 0.13 | 0.052 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.7 | 0.79 | 0.064 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 7.1 | 0.63 | 0.023 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 4.8 | 0.13 | 0.037 | ug/m3 | TO-15 |
| Ethanol | | 7.0 | 0.75 | 0.32 | ug/m3 | TO-15 |
| Ethylbenzene | | 2.9 | 0.69 | 0.052 | ug/m3 | TO-15 |
| Ethyl Acetate | | 15 | 0.58 | 0.11 | ug/m3 | TO-15 |
| Heptane | | 120 | 0.66 | 0.057 | ug/m3 | TO-15 |
| Hexane | | 206 | 28 | 1.5 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 1.4 | 0.39 | 0.13 | ug/m3 | TO-15 |
| Methylene chloride | | 1.1 | 0.56 | 0.042 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 81.7 | 0.47 | 0.10 | ug/m3 | TO-15 |
| Styrene | | 0.43 J | 0.68 | 0.064 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 1.2 | 0.79 | 0.13 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.46 J | 0.79 | 0.13 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 58.4 | 0.75 | 0.079 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 3.0 | 0.49 | 0.033 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 5.0 | 0.22 | 0.17 | ug/m3 | TO-15 |
| Toluene | | 11 | 0.60 | 0.045 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 0.46 | 0.45 | 0.12 | ug/m3 | TO-15 |
| Vinyl chloride | | 95.3 | 0.082 | 0.046 | ug/m3 | TO-15 |
| m,p-Xylene | | 6.5 | 0.69 | 0.12 | ug/m3 | TO-15 |
| Xylenes (total) | | 6.5 | 0.69 | 0.061 | ug/m3 | TO-15 |
| JD36521-6 TT-SB-37SV | | | | | | |
| Acetone (2-Propanone) | | 5.0 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 1.3 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 0.78 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroform | | 0.16 J | 0.20 | 0.020 | ppbv | TO-15 |
| 1,4-Dioxane | | 0.24 | 0.20 | 0.052 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.42 | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | | 2.6 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.30 | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 5.5 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.56 | 0.20 | 0.030 | ppbv | TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-------|-------|--------|
| Freon 113 | | 0.60 | 0.10 | 0.017 | ppbv | TO-15 |
| Heptane | | 0.30 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexachlorobutadiene | | 0.15 | 0.090 | 0.046 | ppbv | TO-15 |
| Hexane | | 0.46 | 0.20 | 0.011 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.60 | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | | 0.39 | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | | 5.4 | 0.20 | 0.042 | ppbv | TO-15 |
| Styrene | | 0.17 J | 0.20 | 0.019 | ppbv | TO-15 |
| 1,2,4-Trichlorobenzene | | 0.13 | 0.10 | 0.089 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.47 | 0.20 | 0.033 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.16 J | 0.20 | 0.034 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | | 0.12 J | 0.20 | 0.022 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 1.1 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 1.6 | 0.040 | 0.031 | ppbv | TO-15 |
| Tetrahydrofuran | | 4.7 | 0.20 | 0.050 | ppbv | TO-15 |
| Toluene | | 1.3 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichloroethylene | | 0.27 | 0.040 | 0.019 | ppbv | TO-15 |
| Trichlorofluoromethane | | 3.5 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | | 1.2 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.43 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 1.6 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 12 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 4.2 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 2.4 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroform | | 0.78 J | 0.98 | 0.098 | ug/m3 | TO-15 |
| 1,4-Dioxane | | 0.86 | 0.72 | 0.19 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.1 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 4.9 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 1.3 | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 20 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 2.8 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Freon 113 | | 4.6 | 0.77 | 0.13 | ug/m3 | TO-15 |
| Heptane | | 1.2 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexachlorobutadiene | | 1.6 | 0.96 | 0.49 | ug/m3 | TO-15 |
| Hexane | | 1.6 | 0.70 | 0.039 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 1.5 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methylene chloride | | 1.4 | 0.69 | 0.052 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 16 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Styrene | | 0.72 J | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,2,4-Trichlorobenzene | | 0.97 | 0.74 | 0.66 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 2.3 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.79 J | 0.98 | 0.17 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 0.56 J | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 3.3 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 11 | 0.27 | 0.21 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|-------------------------|---------|-------|--------|-------------|
| | | Tetrahydrofuran | 14 | 0.59 | 0.15 | ug/m3 TO-15 |
| | | Toluene | 4.9 | 0.75 | 0.053 | ug/m3 TO-15 |
| | | Trichloroethylene | 1.5 | 0.21 | 0.10 | ug/m3 TO-15 |
| | | Trichlorofluoromethane | 20 | 0.56 | 0.16 | ug/m3 TO-15 |
| | | m,p-Xylene | 5.2 | 0.87 | 0.15 | ug/m3 TO-15 |
| | | o-Xylene | 1.9 | 0.87 | 0.074 | ug/m3 TO-15 |
| | | Xylenes (total) | 6.9 | 0.87 | 0.074 | ug/m3 TO-15 |
| JD36521-7 | TT-SB-A | | | | | |
| | | Acetone (2-Propanone) | 1.8 | 0.16 | 0.090 | ppbv TO-15 |
| | | Benzene | 0.24 | 0.16 | 0.0095 | ppbv TO-15 |
| | | Chloromethane | 0.42 | 0.16 | 0.012 | ppbv TO-15 |
| | | Cyclohexane | 0.079 J | 0.16 | 0.018 | ppbv TO-15 |
| | | Dichlorodifluoromethane | 0.36 | 0.16 | 0.013 | ppbv TO-15 |
| | | Ethanol | 5.9 | 0.40 | 0.17 | ppbv TO-15 |
| | | Ethyl Acetate | 18.1 | 0.16 | 0.030 | ppbv TO-15 |
| | | Hexane | 0.14 J | 0.16 | 0.0085 | ppbv TO-15 |
| | | Isopropyl Alcohol | 0.89 | 0.16 | 0.052 | ppbv TO-15 |
| | | Methylene chloride | 0.24 | 0.16 | 0.012 | ppbv TO-15 |
| | | Methyl ethyl ketone | 0.14 J | 0.16 | 0.034 | ppbv TO-15 |
| | | 2,2,4-Trimethylpentane | 0.093 J | 0.16 | 0.017 | ppbv TO-15 |
| | | Tetrachloroethylene | 0.053 | 0.032 | 0.025 | ppbv TO-15 |
| | | Toluene | 0.40 | 0.16 | 0.012 | ppbv TO-15 |
| | | Trichlorofluoromethane | 0.20 | 0.080 | 0.022 | ppbv TO-15 |
| | | m,p-Xylene | 0.21 | 0.16 | 0.027 | ppbv TO-15 |
| | | Xylenes (total) | 0.21 | 0.16 | 0.014 | ppbv TO-15 |
| | | Acetone (2-Propanone) | 4.3 | 0.38 | 0.21 | ug/m3 TO-15 |
| | | Benzene | 0.77 | 0.51 | 0.030 | ug/m3 TO-15 |
| | | Chloromethane | 0.87 | 0.33 | 0.025 | ug/m3 TO-15 |
| | | Cyclohexane | 0.27 J | 0.55 | 0.062 | ug/m3 TO-15 |
| | | Dichlorodifluoromethane | 1.8 | 0.79 | 0.064 | ug/m3 TO-15 |
| | | Ethanol | 11 | 0.75 | 0.32 | ug/m3 TO-15 |
| | | Ethyl Acetate | 65.1 | 0.58 | 0.11 | ug/m3 TO-15 |
| | | Hexane | 0.49 J | 0.56 | 0.030 | ug/m3 TO-15 |
| | | Isopropyl Alcohol | 2.2 | 0.39 | 0.13 | ug/m3 TO-15 |
| | | Methylene chloride | 0.83 | 0.56 | 0.042 | ug/m3 TO-15 |
| | | Methyl ethyl ketone | 0.41 J | 0.47 | 0.10 | ug/m3 TO-15 |
| | | 2,2,4-Trimethylpentane | 0.43 J | 0.75 | 0.079 | ug/m3 TO-15 |
| | | Tetrachloroethylene | 0.36 | 0.22 | 0.17 | ug/m3 TO-15 |
| | | Toluene | 1.5 | 0.60 | 0.045 | ug/m3 TO-15 |
| | | Trichlorofluoromethane | 1.1 | 0.45 | 0.12 | ug/m3 TO-15 |
| | | m,p-Xylene | 0.91 | 0.69 | 0.12 | ug/m3 TO-15 |
| | | Xylenes (total) | 0.91 | 0.69 | 0.061 | ug/m3 TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|-------------------------|------------------|-----------------|-------|-------|-------|--------|
| JD36521-8 | TT-SB-19SV | | | | | |
| Acetone (2-Propanone) | | 16.7 | 0.20 | 0.11 | ppbv | TO-15 |
| Carbon disulfide | | 0.11 J | 0.20 | 0.024 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.24 | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | | 4.1 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.12 J | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 1.1 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.29 | 0.20 | 0.030 | ppbv | TO-15 |
| Freon 113 | | 0.038 J | 0.10 | 0.017 | ppbv | TO-15 |
| Heptane | | 0.50 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | | 0.27 | 0.20 | 0.011 | ppbv | TO-15 |
| 2-Hexanone | | 4.7 | 0.20 | 0.036 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.32 | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | | 0.15 J | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | | 36.4 | 0.20 | 0.042 | ppbv | TO-15 |
| Propylene | | 5.9 | 0.50 | 0.016 | ppbv | TO-15 |
| Styrene | | 0.18 J | 0.20 | 0.019 | ppbv | TO-15 |
| 1,1,1-Trichloroethane | | 0.89 | 0.10 | 0.033 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.26 | 0.20 | 0.033 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 0.94 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.30 | 0.040 | 0.031 | ppbv | TO-15 |
| Toluene | | 0.40 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.11 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | | 0.50 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.20 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 0.70 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 39.7 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Carbon disulfide | | 0.34 J | 0.62 | 0.075 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.2 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 7.7 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.52 J | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 4.0 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 1.4 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Freon 113 | | 0.29 J | 0.77 | 0.13 | ug/m3 | TO-15 |
| Heptane | | 2.0 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 0.95 | 0.70 | 0.039 | ug/m3 | TO-15 |
| 2-Hexanone | | 19 | 0.82 | 0.15 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 0.79 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methylene chloride | | 0.52 J | 0.69 | 0.052 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 107 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Propylene | | 10 | 0.86 | 0.027 | ug/m3 | TO-15 |
| Styrene | | 0.77 J | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 4.9 | 0.55 | 0.18 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 1.3 | 0.98 | 0.16 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|------|-------|-------|--------|
| Ethyl Acetate | | 4.0 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 2.6 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 3.6 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 2.5 | 0.70 | 0.039 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 2.7 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 119 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Propylene | | 16 | 0.86 | 0.027 | ug/m3 | TO-15 |
| Styrene | | 0.60 J | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 1.3 | 0.55 | 0.18 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 2.1 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.64 J | 0.98 | 0.17 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 1.1 | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 8.8 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 5.8 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Toluene | | 3.4 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 0.55 J | 0.56 | 0.16 | ug/m3 | TO-15 |
| m,p-Xylene | | 4.8 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 2.0 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 6.9 | 0.87 | 0.074 | ug/m3 | TO-15 |

JD36521-10 TT-SB-16SV

| | | | | | | |
|-------------------------|--|---------|-------|-------|------|-------|
| Acetone (2-Propanone) | | 17.5 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 1.0 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 5.5 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroform | | 0.35 | 0.20 | 0.020 | ppbv | TO-15 |
| Chloromethane | | 0.096 J | 0.20 | 0.015 | ppbv | TO-15 |
| Cyclohexane | | 0.55 | 0.20 | 0.022 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.32 | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | | 4.1 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.22 | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 1.2 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.34 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | | 0.89 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | | 1.2 | 0.20 | 0.011 | ppbv | TO-15 |
| 2-Hexanone | | 5.5 | 0.20 | 0.036 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.38 | 0.20 | 0.065 | ppbv | TO-15 |
| Methyl ethyl ketone | | 41.1 | 0.20 | 0.042 | ppbv | TO-15 |
| Propylene | | 15.8 | 0.50 | 0.016 | ppbv | TO-15 |
| Styrene | | 0.22 | 0.20 | 0.019 | ppbv | TO-15 |
| 1,1,1-Trichloroethane | | 0.63 | 0.10 | 0.033 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.27 | 0.20 | 0.033 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | | 0.31 | 0.20 | 0.022 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 1.5 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.85 | 0.040 | 0.031 | ppbv | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-------|-------|--------|
| Toluene | | 1.3 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichloroethylene | | 0.19 | 0.040 | 0.019 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.24 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | | 0.76 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.31 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 1.1 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 41.6 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 3.2 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 17 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroform | | 1.7 | 0.98 | 0.098 | ug/m3 | TO-15 |
| Chloromethane | | 0.20 J | 0.41 | 0.031 | ug/m3 | TO-15 |
| Cyclohexane | | 1.9 | 0.69 | 0.076 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.6 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 7.7 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.96 | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 4.3 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 1.7 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 3.6 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 4.2 | 0.70 | 0.039 | ug/m3 | TO-15 |
| 2-Hexanone | | 22 | 0.82 | 0.15 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 0.93 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 121 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Propylene | | 27.1 | 0.86 | 0.027 | ug/m3 | TO-15 |
| Styrene | | 0.94 | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 3.4 | 0.55 | 0.18 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 1.3 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 1.4 | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 4.5 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 5.8 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Toluene | | 4.9 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichloroethylene | | 1.0 | 0.21 | 0.10 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 1.3 | 0.56 | 0.16 | ug/m3 | TO-15 |
| m,p-Xylene | | 3.3 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 1.3 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 4.8 | 0.87 | 0.074 | ug/m3 | TO-15 |

JD36521-11 TT-SB-36SV

| | | | | | | |
|-------------------------|--|--------|------|-------|------|-------|
| Acetone (2-Propanone) | | 11.0 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 0.59 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 0.51 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroform | | 0.40 | 0.20 | 0.020 | ppbv | TO-15 |
| Cyclohexane | | 0.16 J | 0.20 | 0.022 | ppbv | TO-15 |
| 1,1-Dichloroethane | | 0.98 | 0.20 | 0.012 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.27 | 0.20 | 0.017 | ppbv | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|-------|-------|-------|--------|
| Ethanol | | 2.8 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.20 | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 1.4 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.47 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | | 0.38 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | | 0.40 | 0.20 | 0.011 | ppbv | TO-15 |
| 2-Hexanone | | 3.3 | 0.20 | 0.036 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.35 | 0.20 | 0.065 | ppbv | TO-15 |
| Methyl ethyl ketone | | 24.4 | 0.20 | 0.042 | ppbv | TO-15 |
| Styrene | | 0.13 J | 0.20 | 0.019 | ppbv | TO-15 |
| 1,1,1-Trichloroethane | | 0.57 | 0.10 | 0.033 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.54 | 0.20 | 0.033 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.21 | 0.20 | 0.034 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 0.94 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.28 | 0.040 | 0.031 | ppbv | TO-15 |
| Toluene | | 0.55 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.20 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | | 0.71 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.32 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 1.0 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 26.1 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 1.9 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 1.6 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroform | | 2.0 | 0.98 | 0.098 | ug/m3 | TO-15 |
| Cyclohexane | | 0.55 J | 0.69 | 0.076 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 4.0 | 0.81 | 0.049 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.3 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 5.3 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.87 | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 5.0 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 2.3 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 1.6 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 1.4 | 0.70 | 0.039 | ug/m3 | TO-15 |
| 2-Hexanone | | 13 | 0.82 | 0.15 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 0.86 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 72.0 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Styrene | | 0.55 J | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 3.1 | 0.55 | 0.18 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 2.7 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 1.0 | 0.98 | 0.17 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 2.8 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 1.9 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Toluene | | 2.1 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 1.1 | 0.56 | 0.16 | ug/m3 | TO-15 |
| m,p-Xylene | | 3.1 | 0.87 | 0.15 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

| | | | | | | |
|-----------------|--|-----|------|-------|-------|-------|
| o-Xylene | | 1.4 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 4.3 | 0.87 | 0.074 | ug/m3 | TO-15 |

JD36521-12 TT-SB-02SV

| | | | | | | |
|-------------------------|--|--------|-------|-------|-------|-------|
| Acetone (2-Propanone) | | 1.6 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | | 2.4 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | | 0.12 J | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroform | | 0.26 | 0.20 | 0.020 | ppbv | TO-15 |
| Cyclohexane | | 0.11 J | 0.20 | 0.022 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.19 J | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | | 1.2 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | | 0.19 J | 0.20 | 0.015 | ppbv | TO-15 |
| Ethyl Acetate | | 1.1 | 0.20 | 0.038 | ppbv | TO-15 |
| 4-Ethyltoluene | | 0.44 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | | 0.12 J | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | | 0.28 | 0.20 | 0.011 | ppbv | TO-15 |
| 2-Hexanone | | 0.47 | 0.20 | 0.036 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.19 J | 0.20 | 0.065 | ppbv | TO-15 |
| Methylene chloride | | 0.20 | 0.20 | 0.015 | ppbv | TO-15 |
| Methyl ethyl ketone | | 1.7 | 0.20 | 0.042 | ppbv | TO-15 |
| Styrene | | 0.20 | 0.20 | 0.019 | ppbv | TO-15 |
| 1,1,1-Trichloroethane | | 0.21 | 0.10 | 0.033 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | | 0.40 | 0.20 | 0.033 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.11 J | 0.20 | 0.034 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | | 0.24 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.43 | 0.040 | 0.031 | ppbv | TO-15 |
| Toluene | | 0.53 | 0.20 | 0.014 | ppbv | TO-15 |
| m,p-Xylene | | 0.67 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | | 0.27 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | | 0.94 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 3.8 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | | 7.7 | 0.64 | 0.038 | ug/m3 | TO-15 |
| Carbon disulfide | | 0.37 J | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroform | | 1.3 | 0.98 | 0.098 | ug/m3 | TO-15 |
| Cyclohexane | | 0.38 J | 0.69 | 0.076 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 0.94 J | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 2.3 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.83 J | 0.87 | 0.065 | ug/m3 | TO-15 |
| Ethyl Acetate | | 4.0 | 0.72 | 0.14 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 2.2 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 0.49 J | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 0.99 | 0.70 | 0.039 | ug/m3 | TO-15 |
| 2-Hexanone | | 1.9 | 0.82 | 0.15 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 0.47 J | 0.49 | 0.16 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|------------------------|--------|------|-------|-------------|
| | | Methylene chloride | 0.69 | 0.69 | 0.052 | ug/m3 TO-15 |
| | | Methyl ethyl ketone | 5.0 | 0.59 | 0.12 | ug/m3 TO-15 |
| | | Styrene | 0.85 | 0.85 | 0.081 | ug/m3 TO-15 |
| | | 1,1,1-Trichloroethane | 1.1 | 0.55 | 0.18 | ug/m3 TO-15 |
| | | 1,2,4-Trimethylbenzene | 2.0 | 0.98 | 0.16 | ug/m3 TO-15 |
| | | 1,3,5-Trimethylbenzene | 0.54 J | 0.98 | 0.17 | ug/m3 TO-15 |
| | | Tertiary Butyl Alcohol | 0.73 | 0.61 | 0.042 | ug/m3 TO-15 |
| | | Tetrachloroethylene | 2.9 | 0.27 | 0.21 | ug/m3 TO-15 |
| | | Toluene | 2.0 | 0.75 | 0.053 | ug/m3 TO-15 |
| | | m,p-Xylene | 2.9 | 0.87 | 0.15 | ug/m3 TO-15 |
| | | o-Xylene | 1.2 | 0.87 | 0.074 | ug/m3 TO-15 |
| | | Xylenes (total) | 4.1 | 0.87 | 0.074 | ug/m3 TO-15 |

JD36521-13 TT-SB-17SV

| | | | | | |
|-------------------------|--------|-------|-------|-------|-------|
| Acetone (2-Propanone) | 2.0 | 0.20 | 0.11 | ppbv | TO-15 |
| Benzene | 0.94 | 0.20 | 0.012 | ppbv | TO-15 |
| Carbon disulfide | 1.3 | 0.20 | 0.024 | ppbv | TO-15 |
| Chloroform | 5.0 | 0.20 | 0.020 | ppbv | TO-15 |
| Cyclohexane | 0.60 | 0.20 | 0.022 | ppbv | TO-15 |
| 1,1-Dichloroethane | 1.6 | 0.20 | 0.012 | ppbv | TO-15 |
| Dichlorodifluoromethane | 0.25 | 0.20 | 0.017 | ppbv | TO-15 |
| Ethanol | 2.1 | 0.50 | 0.22 | ppbv | TO-15 |
| Ethylbenzene | 0.33 | 0.20 | 0.015 | ppbv | TO-15 |
| 4-Ethyltoluene | 0.53 | 0.20 | 0.030 | ppbv | TO-15 |
| Heptane | 0.23 | 0.20 | 0.018 | ppbv | TO-15 |
| Hexane | 0.48 | 0.20 | 0.011 | ppbv | TO-15 |
| Isopropyl Alcohol | 0.46 | 0.20 | 0.065 | ppbv | TO-15 |
| Methyl ethyl ketone | 2.9 | 0.20 | 0.042 | ppbv | TO-15 |
| Propylene | 3.0 | 0.50 | 0.016 | ppbv | TO-15 |
| Styrene | 0.27 | 0.20 | 0.019 | ppbv | TO-15 |
| 1,1,1-Trichloroethane | 5.3 | 0.10 | 0.033 | ppbv | TO-15 |
| 1,2,4-Trimethylbenzene | 0.45 | 0.20 | 0.033 | ppbv | TO-15 |
| 1,3,5-Trimethylbenzene | 0.12 J | 0.20 | 0.034 | ppbv | TO-15 |
| 2,2,4-Trimethylpentane | 0.37 | 0.20 | 0.022 | ppbv | TO-15 |
| Tertiary Butyl Alcohol | 0.70 | 0.20 | 0.014 | ppbv | TO-15 |
| Tetrachloroethylene | 0.75 | 0.040 | 0.031 | ppbv | TO-15 |
| Tetrahydrofuran | 0.26 | 0.20 | 0.050 | ppbv | TO-15 |
| Toluene | 1.4 | 0.20 | 0.014 | ppbv | TO-15 |
| Trichlorofluoromethane | 0.16 | 0.10 | 0.028 | ppbv | TO-15 |
| m,p-Xylene | 1.1 | 0.20 | 0.034 | ppbv | TO-15 |
| o-Xylene | 0.43 | 0.20 | 0.017 | ppbv | TO-15 |
| Xylenes (total) | 1.5 | 0.20 | 0.017 | ppbv | TO-15 |
| Acetone (2-Propanone) | 4.8 | 0.48 | 0.26 | ug/m3 | TO-15 |
| Benzene | 3.0 | 0.64 | 0.038 | ug/m3 | TO-15 |

Summary of Hits

Job Number: JD36521
 Account: Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Collected: 12/08/21

| Lab Sample ID Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|--------------------------|------------------|-----------------|------|-------|-------|--------|
| Carbon disulfide | | 4.0 | 0.62 | 0.075 | ug/m3 | TO-15 |
| Chloroform | | 24 | 0.98 | 0.098 | ug/m3 | TO-15 |
| Cyclohexane | | 2.1 | 0.69 | 0.076 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 6.5 | 0.81 | 0.049 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.2 | 0.99 | 0.084 | ug/m3 | TO-15 |
| Ethanol | | 4.0 | 0.94 | 0.41 | ug/m3 | TO-15 |
| Ethylbenzene | | 1.4 | 0.87 | 0.065 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 2.6 | 0.98 | 0.15 | ug/m3 | TO-15 |
| Heptane | | 0.94 | 0.82 | 0.074 | ug/m3 | TO-15 |
| Hexane | | 1.7 | 0.70 | 0.039 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 1.1 | 0.49 | 0.16 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 8.6 | 0.59 | 0.12 | ug/m3 | TO-15 |
| Propylene | | 5.2 | 0.86 | 0.027 | ug/m3 | TO-15 |
| Styrene | | 1.1 | 0.85 | 0.081 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 29 | 0.55 | 0.18 | ug/m3 | TO-15 |
| 1,2,4-Trimethylbenzene | | 2.2 | 0.98 | 0.16 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.59 J | 0.98 | 0.17 | ug/m3 | TO-15 |
| 2,2,4-Trimethylpentane | | 1.7 | 0.93 | 0.10 | ug/m3 | TO-15 |
| Tertiary Butyl Alcohol | | 2.1 | 0.61 | 0.042 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 5.1 | 0.27 | 0.21 | ug/m3 | TO-15 |
| Tetrahydrofuran | | 0.77 | 0.59 | 0.15 | ug/m3 | TO-15 |
| Toluene | | 5.3 | 0.75 | 0.053 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 0.90 | 0.56 | 0.16 | ug/m3 | TO-15 |
| m,p-Xylene | | 4.8 | 0.87 | 0.15 | ug/m3 | TO-15 |
| o-Xylene | | 1.9 | 0.87 | 0.074 | ug/m3 | TO-15 |
| Xylenes (total) | | 6.5 | 0.87 | 0.074 | ug/m3 | TO-15 |

JD36521-14 TT-SB-21SV

| | | | | | | |
|-------------------------|--|---------|------|-------|------|-------|
| Acetone (2-Propanone) | | 5.2 | 0.36 | 0.20 | ppbv | TO-15 |
| Benzene | | 0.90 | 0.36 | 0.021 | ppbv | TO-15 |
| Chloromethane | | 0.36 | 0.36 | 0.027 | ppbv | TO-15 |
| Cyclohexane | | 3.1 | 0.36 | 0.039 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.31 J | 0.36 | 0.030 | ppbv | TO-15 |
| Ethanol | | 7.6 | 0.90 | 0.39 | ppbv | TO-15 |
| Ethylbenzene | | 0.096 J | 0.36 | 0.027 | ppbv | TO-15 |
| Ethyl Acetate | | 8.3 | 0.36 | 0.067 | ppbv | TO-15 |
| Heptane | | 0.85 | 0.36 | 0.031 | ppbv | TO-15 |
| Hexane | | 2.2 | 0.36 | 0.019 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.74 | 0.36 | 0.12 | ppbv | TO-15 |
| Methyl ethyl ketone | | 1.0 | 0.36 | 0.075 | ppbv | TO-15 |
| Toluene | | 0.62 | 0.36 | 0.026 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.20 | 0.18 | 0.050 | ppbv | TO-15 |
| m,p-Xylene | | 0.30 J | 0.36 | 0.061 | ppbv | TO-15 |
| Xylenes (total) | | 0.30 J | 0.36 | 0.030 | ppbv | TO-15 |

Summary of Hits

Job Number: JD36521
Account: Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Collected: 12/08/21

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|-------------------------|------------------|-----------------|------|-------|-------|--------|
| Acetone (2-Propanone) | | 12 | 0.86 | 0.48 | ug/m3 | TO-15 |
| Benzene | | 2.9 | 1.2 | 0.067 | ug/m3 | TO-15 |
| Chloromethane | | 0.74 | 0.74 | 0.056 | ug/m3 | TO-15 |
| Cyclohexane | | 11 | 1.2 | 0.13 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.5 J | 1.8 | 0.15 | ug/m3 | TO-15 |
| Ethanol | | 14 | 1.7 | 0.73 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.42 J | 1.6 | 0.12 | ug/m3 | TO-15 |
| Ethyl Acetate | | 30 | 1.3 | 0.24 | ug/m3 | TO-15 |
| Heptane | | 3.5 | 1.5 | 0.13 | ug/m3 | TO-15 |
| Hexane | | 7.8 | 1.3 | 0.067 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 1.8 | 0.88 | 0.29 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 2.9 | 1.1 | 0.22 | ug/m3 | TO-15 |
| Toluene | | 2.3 | 1.4 | 0.098 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 1.1 | 1.0 | 0.28 | ug/m3 | TO-15 |
| m,p-Xylene | | 1.3 J | 1.6 | 0.26 | ug/m3 | TO-15 |
| Xylenes (total) | | 1.3 J | 1.6 | 0.13 | ug/m3 | TO-15 |



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Test results relate only to samples analyzed.

Dayton, NJ

Section 4

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-33SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-1 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1363 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46819.D | 1 | 12/14/21 22:21 | DFT | n/a | n/a | V5W1936 |
| Run #2 | 5W46840.D | 1 | 12/15/21 17:26 | DFT | n/a | n/a | V5W1937 |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | 40.0 ml |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|------------------|-------|--------|-------|---|------------------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 20.7 | 0.20 | 0.11 | ppbv | | 49.2 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 1.6 | 0.20 | 0.012 | ppbv | | 5.1 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 25.7 | 0.20 | 0.024 | ppbv | | 80.0 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.20 | 0.020 | ppbv | | ND | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.15 | 0.20 | 0.015 | ppbv | J | 0.31 | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 108 ^a | 2.0 | 0.22 | ppbv | | 372 ^a | 6.9 | 0.76 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.20 | 0.20 | 0.017 | ppbv | | 0.99 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-33SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-1 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1363 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|------------------|-------|-------|-------|---|------------------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 2.0 | 0.50 | 0.22 | ppbv | | 3.8 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.20 | 0.015 | ppbv | | ND | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.20 | 0.038 | ppbv | | ND | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 4.2 | 0.20 | 0.030 | ppbv | | 21 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 103 ^a | 2.0 | 0.18 | ppbv | | 422 ^a | 8.2 | 0.74 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 21.8 | 0.20 | 0.011 | ppbv | | 76.8 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.48 | 0.20 | 0.065 | ppbv | | 1.2 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.21 | 0.20 | 0.015 | ppbv | | 0.73 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 4.4 | 0.20 | 0.042 | ppbv | | 13 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 34.1 | 0.50 | 0.016 | ppbv | | 58.6 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.20 | 0.019 | ppbv | | ND | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 2.2 | 0.20 | 0.033 | ppbv | | 11 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 3.3 | 0.20 | 0.034 | ppbv | | 16 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.022 | ppbv | | ND | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 0.91 | 0.20 | 0.014 | ppbv | | 2.8 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.41 | 0.040 | 0.031 | ppbv | | 2.8 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 13.7 | 0.20 | 0.014 | ppbv | | 51.6 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.10 | 0.028 | ppbv | | ND | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 21.0 | 0.20 | 0.034 | ppbv | | 91.2 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 10.4 | 0.20 | 0.017 | ppbv | | 45.2 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 31.4 | 0.20 | 0.017 | ppbv | | 136 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 112% | 105% | 65-128% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-33SV | | Date Sampled: 12/08/21 |
| Lab Sample ID: JD36521-1 | | Date Received: 12/09/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1363 | Percent Solids: n/a |
| Method: TO-15 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.1

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|

(a) Result is from Run# 2

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-32SV | | |
| Lab Sample ID: JD36521-2 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1112 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46820.D | 1 | 12/14/21 23:16 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|------|--------|-------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 5.2 | 0.20 | 0.11 | ppbv | 12 | 0.48 | 0.26 | ug/m3 | |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | ND | 0.44 | 0.10 | ug/m3 | |
| 71-43-2 | 78.11 | Benzene | 0.39 | 0.20 | 0.012 | ppbv | 1.2 | 0.64 | 0.038 | ug/m3 | |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | ND | 0.67 | 0.18 | ug/m3 | |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | ND | 0.41 | 0.38 | ug/m3 | |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | ND | 0.78 | 0.085 | ug/m3 | |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | ND | 0.87 | 0.096 | ug/m3 | |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | ND | 1.0 | 0.29 | ug/m3 | |
| 75-15-0 | 76.14 | Carbon disulfide | 1.9 | 0.20 | 0.024 | ppbv | 5.9 | 0.62 | 0.075 | ug/m3 | |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | ND | 0.92 | 0.12 | ug/m3 | |
| 75-00-3 | 64.52 | Chloroethane | 0.66 | 0.20 | 0.048 | ppbv | 1.7 | 0.53 | 0.13 | ug/m3 | |
| 67-66-3 | 119.4 | Chloroform | 2.0 | 0.20 | 0.020 | ppbv | 9.8 | 0.98 | 0.098 | ug/m3 | |
| 74-87-3 | 50.49 | Chloromethane | 0.59 | 0.20 | 0.015 | ppbv | 1.2 | 0.41 | 0.031 | ug/m3 | |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | ND | 0.63 | 0.13 | ug/m3 | |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | ND | 1.0 | 0.13 | ug/m3 | |
| 56-23-5 | 153.8 | Carbon tetrachloride | 0.24 | 0.040 | 0.024 | ppbv | 1.5 | 0.25 | 0.15 | ug/m3 | |
| 110-82-7 | 84.16 | Cyclohexane | 0.39 | 0.20 | 0.022 | ppbv | 1.3 | 0.69 | 0.076 | ug/m3 | |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | 0.28 | 0.20 | 0.012 | ppbv | 1.1 | 0.81 | 0.049 | ug/m3 | |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | ND | 0.16 | 0.067 | ug/m3 | |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | ND | 0.77 | 0.14 | ug/m3 | |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | ND | 0.81 | 0.085 | ug/m3 | |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | ND | 0.92 | 0.088 | ug/m3 | |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | ND | 0.72 | 0.19 | ug/m3 | |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.29 | 0.20 | 0.017 | ppbv | 1.4 | 0.99 | 0.084 | ug/m3 | |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | ND | 0.85 | 0.28 | ug/m3 | |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | ND | 0.79 | 0.029 | ug/m3 | |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | ND | 0.16 | 0.048 | ug/m3 | |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | ND | 0.91 | 0.091 | ug/m3 | |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | ND | 0.60 | 0.11 | ug/m3 | |
| 95-50-1 | 147 | o-Dichlorobenzene | 0.14 | 0.040 | 0.022 | ppbv | 0.84 | 0.24 | 0.13 | ug/m3 | |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | ND | 0.60 | 0.11 | ug/m3 | |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | ND | 0.91 | 0.091 | ug/m3 | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-32SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-2 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1112 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.2

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 1.6 | 0.50 | 0.22 | ppbv | | 3.0 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.27 | 0.20 | 0.015 | ppbv | | 1.2 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 1.2 | 0.20 | 0.038 | ppbv | | 4.3 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.55 | 0.20 | 0.030 | ppbv | | 2.7 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.19 | 0.20 | 0.018 | ppbv | J | 0.78 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.32 | 0.20 | 0.011 | ppbv | | 1.1 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.36 | 0.20 | 0.065 | ppbv | | 0.88 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.25 | 0.20 | 0.015 | ppbv | | 0.87 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 2.3 | 0.20 | 0.042 | ppbv | | 6.8 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 9.9 | 0.50 | 0.016 | ppbv | | 17 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.21 | 0.20 | 0.019 | ppbv | | 0.89 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 3.9 | 0.10 | 0.033 | ppbv | | 21 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.53 | 0.20 | 0.033 | ppbv | | 2.6 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.15 | 0.20 | 0.034 | ppbv | J | 0.74 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.14 | 0.20 | 0.022 | ppbv | J | 0.65 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 1.2 | 0.20 | 0.014 | ppbv | | 3.6 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.78 | 0.040 | 0.031 | ppbv | | 5.3 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | 0.12 | 0.20 | 0.050 | ppbv | J | 0.35 | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.90 | 0.20 | 0.014 | ppbv | | 3.4 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 0.13 | 0.040 | 0.019 | ppbv | | 0.70 | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.17 | 0.10 | 0.028 | ppbv | | 0.96 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 1.1 | 0.20 | 0.034 | ppbv | | 4.8 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.50 | 0.20 | 0.017 | ppbv | | 2.2 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.6 | 0.20 | 0.017 | ppbv | | 6.9 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-25SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-3 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: M139 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46821.D | 1 | 12/15/21 00:11 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 23.9 | 0.20 | 0.11 | ppbv | | 56.8 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.22 | 0.20 | 0.012 | ppbv | | 0.70 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 0.51 | 0.20 | 0.024 | ppbv | | 1.6 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.10 | 0.20 | 0.020 | ppbv | J | 0.49 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 2.3 | 0.20 | 0.022 | ppbv | | 7.9 | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.32 | 0.20 | 0.017 | ppbv | | 1.6 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|-----------------------|--------------------------------|
| Client Sample ID: TT-SB-25SV | | |
| Lab Sample ID: JD36521-3 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: M139 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.3

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 11.5 | 0.50 | 0.22 | ppbv | | 21.7 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.14 | 0.20 | 0.015 | ppbv | J | 0.61 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 2.3 | 0.20 | 0.038 | ppbv | | 8.3 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.20 | 0.20 | 0.030 | ppbv | | 0.98 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.42 | 0.20 | 0.018 | ppbv | | 1.7 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.46 | 0.20 | 0.011 | ppbv | | 1.6 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | 1.9 | 0.20 | 0.036 | ppbv | | 7.8 | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 2.6 | 0.20 | 0.065 | ppbv | | 6.4 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.23 | 0.20 | 0.015 | ppbv | | 0.80 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 23.8 | 0.20 | 0.042 | ppbv | | 70.2 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | 0.76 | 0.20 | 0.019 | ppbv | | 2.7 | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 6.3 | 0.50 | 0.016 | ppbv | | 11 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.14 | 0.20 | 0.019 | ppbv | J | 0.60 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.19 | 0.20 | 0.033 | ppbv | J | 0.93 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.034 | ppbv | | ND | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.14 | 0.20 | 0.022 | ppbv | J | 0.65 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 0.92 | 0.20 | 0.014 | ppbv | | 2.8 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 1.2 | 0.040 | 0.031 | ppbv | | 8.1 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.46 | 0.20 | 0.014 | ppbv | | 1.7 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 2.2 | 0.040 | 0.019 | ppbv | | 12 | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.18 | 0.10 | 0.028 | ppbv | | 1.0 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.43 | 0.20 | 0.034 | ppbv | | 1.9 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.21 | 0.20 | 0.017 | ppbv | | 0.91 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.63 | 0.20 | 0.017 | ppbv | | 2.7 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-24SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-4 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1325 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46822.D | 1 | 12/15/21 01:07 | DFT | n/a | n/a | V5W1936 |
| Run #2 | 5W46841.D | 1 | 12/15/21 18:14 | DFT | n/a | n/a | V5W1937 |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | 40.0 ml |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|------------------|-------|--------|-------|---|------------------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 31.9 | 0.20 | 0.11 | ppbv | | 75.8 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.97 | 0.20 | 0.012 | ppbv | | 3.1 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 131 ^a | 2.0 | 0.24 | ppbv | | 408 ^a | 6.2 | 0.75 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.20 | 0.020 | ppbv | | ND | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.20 | 0.20 | 0.015 | ppbv | | 0.41 | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 16.4 | 0.20 | 0.022 | ppbv | | 56.5 | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.39 | 0.20 | 0.017 | ppbv | | 1.9 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 0.16 | 0.20 | 0.0073 | ppbv | J | 0.63 | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1.5 | 0.040 | 0.012 | ppbv | | 5.9 | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-24SV | | |
| Lab Sample ID: JD36521-4 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1325 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.4

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 5.6 | 0.50 | 0.22 | ppbv | | 11 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.23 | 0.20 | 0.015 | ppbv | | 1.0 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 2.9 | 0.20 | 0.038 | ppbv | | 10 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.43 | 0.20 | 0.030 | ppbv | | 2.1 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | 0.16 | 0.10 | 0.019 | ppbv | | 1.1 | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 1.2 | 0.20 | 0.018 | ppbv | | 4.9 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 1.5 | 0.20 | 0.011 | ppbv | | 5.3 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | 3.3 | 0.20 | 0.036 | ppbv | | 13 | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.50 | 0.20 | 0.065 | ppbv | | 1.2 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.65 | 0.20 | 0.015 | ppbv | | 2.3 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 31.5 | 0.20 | 0.042 | ppbv | | 92.9 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.50 | 0.016 | ppbv | | ND | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.13 | 0.20 | 0.019 | ppbv | J | 0.55 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.33 | 0.20 | 0.033 | ppbv | | 1.6 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.034 | ppbv | | ND | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 16.2 | 0.20 | 0.022 | ppbv | | 75.7 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 1.4 | 0.20 | 0.014 | ppbv | | 4.2 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.69 | 0.040 | 0.031 | ppbv | | 4.7 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.73 | 0.20 | 0.014 | ppbv | | 2.8 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.11 | 0.10 | 0.028 | ppbv | | 0.62 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 0.34 | 0.040 | 0.022 | ppbv | | 0.87 | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.94 | 0.20 | 0.034 | ppbv | | 4.1 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.40 | 0.20 | 0.017 | ppbv | | 1.7 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.3 | 0.20 | 0.017 | ppbv | | 5.6 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 100% | 95% | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-24SV | | Date Sampled: 12/08/21 |
| Lab Sample ID: JD36521-4 | | Date Received: 12/09/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1325 | Percent Solids: n/a |
| Method: TO-15 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.4

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|

(a) Result is from Run# 2

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-5 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A743 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46823.D | 1 | 12/15/21 02:03 | DFT | n/a | n/a | V5W1936 |
| Run #2 | 5W46842.D | 1 | 12/15/21 19:02 | DFT | n/a | n/a | V5W1937 |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 500 ml |
| Run #2 | 10.0 ml |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|-------------------|-------|--------|-------|---|------------------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 36.2 | 0.16 | 0.090 | ppbv | | 86.0 | 0.38 | 0.21 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.16 | 0.037 | ppbv | | ND | 0.35 | 0.082 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 14.2 | 0.16 | 0.0095 | ppbv | | 45.4 | 0.51 | 0.030 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.080 | 0.021 | ppbv | | ND | 0.54 | 0.14 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.032 | 0.030 | ppbv | | ND | 0.33 | 0.31 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.16 | 0.018 | ppbv | | ND | 0.62 | 0.070 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.16 | 0.018 | ppbv | | ND | 0.70 | 0.079 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.16 | 0.045 | ppbv | | ND | 0.82 | 0.23 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 153 ^a | 8.0 | 0.94 | ppbv | | 476 ^a | 25 | 2.9 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.16 | 0.021 | ppbv | | ND | 0.74 | 0.097 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.16 | 0.039 | ppbv | | ND | 0.42 | 0.10 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.16 | 0.016 | ppbv | | ND | 0.78 | 0.078 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.13 | 0.16 | 0.012 | ppbv | J | 0.27 | 0.33 | 0.025 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.16 | 0.032 | ppbv | | ND | 0.50 | 0.10 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.16 | 0.020 | ppbv | | ND | 0.83 | 0.10 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.032 | 0.019 | ppbv | | ND | 0.20 | 0.12 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 39.0 ^a | 8.0 | 0.88 | ppbv | | 134 ^a | 28 | 3.0 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.16 | 0.0093 | ppbv | | ND | 0.65 | 0.038 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 1.0 | 0.032 | 0.013 | ppbv | | 4.0 | 0.13 | 0.052 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.080 | 0.014 | ppbv | | ND | 0.61 | 0.11 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.16 | 0.017 | ppbv | | ND | 0.65 | 0.069 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.16 | 0.015 | ppbv | | ND | 0.74 | 0.069 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.16 | 0.042 | ppbv | | ND | 0.58 | 0.15 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.35 | 0.16 | 0.013 | ppbv | | 1.7 | 0.79 | 0.064 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.080 | 0.027 | ppbv | | ND | 0.68 | 0.23 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 1.8 | 0.16 | 0.0058 | ppbv | | 7.1 | 0.63 | 0.023 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1.2 | 0.032 | 0.0094 | ppbv | | 4.8 | 0.13 | 0.037 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.16 | 0.016 | ppbv | | ND | 0.73 | 0.073 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.080 | 0.015 | ppbv | | ND | 0.48 | 0.090 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.032 | 0.017 | ppbv | | ND | 0.19 | 0.10 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.080 | 0.014 | ppbv | | ND | 0.48 | 0.084 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.16 | 0.016 | ppbv | | ND | 0.73 | 0.073 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-39SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-5 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A743 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|-------------------|-------|-------|-------|---|------------------|-------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 3.7 | 0.40 | 0.17 | ppbv | | 7.0 | 0.75 | 0.32 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.66 | 0.16 | 0.012 | ppbv | | 2.9 | 0.69 | 0.052 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 4.2 | 0.16 | 0.030 | ppbv | | 15 | 0.58 | 0.11 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.16 | 0.024 | ppbv | | ND | 0.79 | 0.12 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.080 | 0.014 | ppbv | | ND | 0.61 | 0.11 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.080 | 0.015 | ppbv | | ND | 0.56 | 0.10 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 29.4 | 0.16 | 0.014 | ppbv | | 120 | 0.66 | 0.057 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.072 | 0.036 | ppbv | | ND | 0.77 | 0.38 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 58.5 ^a | 8.0 | 0.42 | ppbv | | 206 ^a | 28 | 1.5 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.16 | 0.029 | ppbv | | ND | 0.65 | 0.12 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.56 | 0.16 | 0.052 | ppbv | | 1.4 | 0.39 | 0.13 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.31 | 0.16 | 0.012 | ppbv | | 1.1 | 0.56 | 0.042 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 27.7 | 0.16 | 0.034 | ppbv | | 81.7 | 0.47 | 0.10 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.16 | 0.029 | ppbv | | ND | 0.66 | 0.12 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.16 | 0.015 | ppbv | | ND | 0.58 | 0.054 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.16 | 0.026 | ppbv | | ND | 0.66 | 0.11 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.40 | 0.013 | ppbv | | ND | 0.69 | 0.022 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.10 | 0.16 | 0.015 | ppbv | J | 0.43 | 0.68 | 0.064 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.080 | 0.027 | ppbv | | ND | 0.44 | 0.15 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.080 | 0.022 | ppbv | | ND | 0.55 | 0.15 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.080 | 0.024 | ppbv | | ND | 0.44 | 0.13 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.080 | 0.071 | ppbv | | ND | 0.59 | 0.53 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.25 | 0.16 | 0.026 | ppbv | | 1.2 | 0.79 | 0.13 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.093 | 0.16 | 0.027 | ppbv | J | 0.46 | 0.79 | 0.13 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 12.5 | 0.16 | 0.017 | ppbv | | 58.4 | 0.75 | 0.079 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 1.0 | 0.16 | 0.011 | ppbv | | 3.0 | 0.49 | 0.033 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.74 | 0.032 | 0.025 | ppbv | | 5.0 | 0.22 | 0.17 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.16 | 0.040 | ppbv | | ND | 0.47 | 0.12 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 3.0 | 0.16 | 0.012 | ppbv | | 11 | 0.60 | 0.045 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.032 | 0.015 | ppbv | | ND | 0.17 | 0.081 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.081 | 0.080 | 0.022 | ppbv | | 0.46 | 0.45 | 0.12 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 37.3 | 0.032 | 0.018 | ppbv | | 95.3 | 0.082 | 0.046 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.16 | 0.027 | ppbv | | ND | 0.56 | 0.095 | ug/m3 |
| | 106.2 | m,p-Xylene | 1.5 | 0.16 | 0.027 | ppbv | | 6.5 | 0.69 | 0.12 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.16 | 0.014 | ppbv | | ND | 0.69 | 0.061 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.5 | 0.16 | 0.014 | ppbv | | 6.5 | 0.69 | 0.061 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 91% | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|-----------------------|--------------------------------|
| Client Sample ID: TT-SB-39SV | | Date Sampled: 12/08/21 |
| Lab Sample ID: JD36521-5 | | Date Received: 12/09/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A743 | Percent Solids: n/a |
| Method: TO-15 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.5

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|
|---------|----|----------|--------|----|-----|-------|---|--------|----|-----|-------|

(a) Result is from Run# 2

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-37SV | | |
| Lab Sample ID: JD36521-6 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. Summa ID: M011 | | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46824.D | 1 | 12/15/21 02:58 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 5.0 | 0.20 | 0.11 | ppbv | | 12 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 1.3 | 0.20 | 0.012 | ppbv | | 4.2 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 0.78 | 0.20 | 0.024 | ppbv | | 2.4 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.16 | 0.20 | 0.020 | ppbv | J | 0.78 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.20 | 0.022 | ppbv | | ND | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | 0.24 | 0.20 | 0.052 | ppbv | | 0.86 | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.42 | 0.20 | 0.017 | ppbv | | 2.1 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.6

Report of Analysis

| | | |
|---|-----------------------|--------------------------------|
| Client Sample ID: TT-SB-37SV | | |
| Lab Sample ID: JD36521-6 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: M011 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.6

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 2.6 | 0.50 | 0.22 | ppbv | | 4.9 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.30 | 0.20 | 0.015 | ppbv | | 1.3 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 5.5 | 0.20 | 0.038 | ppbv | | 20 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.56 | 0.20 | 0.030 | ppbv | | 2.8 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | 0.60 | 0.10 | 0.017 | ppbv | | 4.6 | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.30 | 0.20 | 0.018 | ppbv | | 1.2 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | 0.15 | 0.090 | 0.046 | ppbv | | 1.6 | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.46 | 0.20 | 0.011 | ppbv | | 1.6 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.60 | 0.20 | 0.065 | ppbv | | 1.5 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.39 | 0.20 | 0.015 | ppbv | | 1.4 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 5.4 | 0.20 | 0.042 | ppbv | | 16 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.50 | 0.016 | ppbv | | ND | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.17 | 0.20 | 0.019 | ppbv | J | 0.72 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | 0.13 | 0.10 | 0.089 | ppbv | | 0.97 | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.47 | 0.20 | 0.033 | ppbv | | 2.3 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.16 | 0.20 | 0.034 | ppbv | J | 0.79 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.12 | 0.20 | 0.022 | ppbv | J | 0.56 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 1.1 | 0.20 | 0.014 | ppbv | | 3.3 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 1.6 | 0.040 | 0.031 | ppbv | | 11 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | 4.7 | 0.20 | 0.050 | ppbv | | 14 | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 1.3 | 0.20 | 0.014 | ppbv | | 4.9 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 0.27 | 0.040 | 0.019 | ppbv | | 1.5 | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 3.5 | 0.10 | 0.028 | ppbv | | 20 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 1.2 | 0.20 | 0.034 | ppbv | | 5.2 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.43 | 0.20 | 0.017 | ppbv | | 1.9 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.6 | 0.20 | 0.017 | ppbv | | 6.9 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-A | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-7 | Date Received: | 12/09/21 |
| Matrix: | AIR - Ambient Air Comp. Summa ID: M163 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46825.D | 1 | 12/15/21 03:55 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 500 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 1.8 | 0.16 | 0.090 | ppbv | | 4.3 | 0.38 | 0.21 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.16 | 0.037 | ppbv | | ND | 0.35 | 0.082 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.24 | 0.16 | 0.0095 | ppbv | | 0.77 | 0.51 | 0.030 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.080 | 0.021 | ppbv | | ND | 0.54 | 0.14 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.032 | 0.030 | ppbv | | ND | 0.33 | 0.31 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.16 | 0.018 | ppbv | | ND | 0.62 | 0.070 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.16 | 0.018 | ppbv | | ND | 0.70 | 0.079 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.16 | 0.045 | ppbv | | ND | 0.82 | 0.23 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.16 | 0.019 | ppbv | | ND | 0.50 | 0.059 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.16 | 0.021 | ppbv | | ND | 0.74 | 0.097 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.16 | 0.039 | ppbv | | ND | 0.42 | 0.10 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.16 | 0.016 | ppbv | | ND | 0.78 | 0.078 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.42 | 0.16 | 0.012 | ppbv | | 0.87 | 0.33 | 0.025 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.16 | 0.032 | ppbv | | ND | 0.50 | 0.10 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.16 | 0.020 | ppbv | | ND | 0.83 | 0.10 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.032 | 0.019 | ppbv | | ND | 0.20 | 0.12 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 0.079 | 0.16 | 0.018 | ppbv | J | 0.27 | 0.55 | 0.062 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.16 | 0.0093 | ppbv | | ND | 0.65 | 0.038 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.032 | 0.013 | ppbv | | ND | 0.13 | 0.052 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.080 | 0.014 | ppbv | | ND | 0.61 | 0.11 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.16 | 0.017 | ppbv | | ND | 0.65 | 0.069 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.16 | 0.015 | ppbv | | ND | 0.74 | 0.069 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.16 | 0.042 | ppbv | | ND | 0.58 | 0.15 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.36 | 0.16 | 0.013 | ppbv | | 1.8 | 0.79 | 0.064 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.080 | 0.027 | ppbv | | ND | 0.68 | 0.23 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.16 | 0.0058 | ppbv | | ND | 0.63 | 0.023 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.032 | 0.0094 | ppbv | | ND | 0.13 | 0.037 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.16 | 0.016 | ppbv | | ND | 0.73 | 0.073 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.080 | 0.015 | ppbv | | ND | 0.48 | 0.090 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.032 | 0.017 | ppbv | | ND | 0.19 | 0.10 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.080 | 0.014 | ppbv | | ND | 0.48 | 0.084 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.16 | 0.016 | ppbv | | ND | 0.73 | 0.073 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-A | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-7 | Date Received: | 12/09/21 |
| Matrix: | AIR - Ambient Air Comp. Summa ID: M163 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.7

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|--------|-------|---|--------|-------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 5.9 | 0.40 | 0.17 | ppbv | | 11 | 0.75 | 0.32 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.16 | 0.012 | ppbv | | ND | 0.69 | 0.052 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 18.1 | 0.16 | 0.030 | ppbv | | 65.1 | 0.58 | 0.11 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.16 | 0.024 | ppbv | | ND | 0.79 | 0.12 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.080 | 0.014 | ppbv | | ND | 0.61 | 0.11 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.080 | 0.015 | ppbv | | ND | 0.56 | 0.10 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.16 | 0.014 | ppbv | | ND | 0.66 | 0.057 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.072 | 0.036 | ppbv | | ND | 0.77 | 0.38 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.14 | 0.16 | 0.0085 | ppbv | J | 0.49 | 0.56 | 0.030 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.16 | 0.029 | ppbv | | ND | 0.65 | 0.12 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.89 | 0.16 | 0.052 | ppbv | | 2.2 | 0.39 | 0.13 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.24 | 0.16 | 0.012 | ppbv | | 0.83 | 0.56 | 0.042 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.14 | 0.16 | 0.034 | ppbv | J | 0.41 | 0.47 | 0.10 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.16 | 0.029 | ppbv | | ND | 0.66 | 0.12 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.16 | 0.015 | ppbv | | ND | 0.58 | 0.054 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.16 | 0.026 | ppbv | | ND | 0.66 | 0.11 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.40 | 0.013 | ppbv | | ND | 0.69 | 0.022 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.16 | 0.015 | ppbv | | ND | 0.68 | 0.064 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.080 | 0.027 | ppbv | | ND | 0.44 | 0.15 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.080 | 0.022 | ppbv | | ND | 0.55 | 0.15 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.080 | 0.024 | ppbv | | ND | 0.44 | 0.13 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.080 | 0.071 | ppbv | | ND | 0.59 | 0.53 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.16 | 0.026 | ppbv | | ND | 0.79 | 0.13 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.16 | 0.027 | ppbv | | ND | 0.79 | 0.13 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.093 | 0.16 | 0.017 | ppbv | J | 0.43 | 0.75 | 0.079 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.16 | 0.011 | ppbv | | ND | 0.49 | 0.033 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.053 | 0.032 | 0.025 | ppbv | | 0.36 | 0.22 | 0.17 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.16 | 0.040 | ppbv | | ND | 0.47 | 0.12 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.40 | 0.16 | 0.012 | ppbv | | 1.5 | 0.60 | 0.045 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.032 | 0.015 | ppbv | | ND | 0.17 | 0.081 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.20 | 0.080 | 0.022 | ppbv | | 1.1 | 0.45 | 0.12 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.032 | 0.018 | ppbv | | ND | 0.082 | 0.046 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.16 | 0.027 | ppbv | | ND | 0.56 | 0.095 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.21 | 0.16 | 0.027 | ppbv | | 0.91 | 0.69 | 0.12 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.16 | 0.014 | ppbv | | ND | 0.69 | 0.061 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.21 | 0.16 | 0.014 | ppbv | | 0.91 | 0.69 | 0.061 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-19SV | | |
| Lab Sample ID: JD36521-8 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1364 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46826.D | 1 | 12/15/21 04:50 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 16.7 | 0.20 | 0.11 | ppbv | | 39.7 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.20 | 0.012 | ppbv | | ND | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 0.11 | 0.20 | 0.024 | ppbv | J | 0.34 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.20 | 0.020 | ppbv | | ND | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.20 | 0.022 | ppbv | | ND | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.24 | 0.20 | 0.017 | ppbv | | 1.2 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.8

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-19SV | | |
| Lab Sample ID: JD36521-8 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1364 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.8

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 4.1 | 0.50 | 0.22 | ppbv | | 7.7 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.12 | 0.20 | 0.015 | ppbv | J | 0.52 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 1.1 | 0.20 | 0.038 | ppbv | | 4.0 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.29 | 0.20 | 0.030 | ppbv | | 1.4 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | 0.038 | 0.10 | 0.017 | ppbv | J | 0.29 | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.50 | 0.20 | 0.018 | ppbv | | 2.0 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.27 | 0.20 | 0.011 | ppbv | | 0.95 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | 4.7 | 0.20 | 0.036 | ppbv | | 19 | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.32 | 0.20 | 0.065 | ppbv | | 0.79 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.15 | 0.20 | 0.015 | ppbv | J | 0.52 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 36.4 | 0.20 | 0.042 | ppbv | | 107 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 5.9 | 0.50 | 0.016 | ppbv | | 10 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.18 | 0.20 | 0.019 | ppbv | J | 0.77 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 0.89 | 0.10 | 0.033 | ppbv | | 4.9 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.26 | 0.20 | 0.033 | ppbv | | 1.3 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.034 | ppbv | | ND | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.022 | ppbv | | ND | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 0.94 | 0.20 | 0.014 | ppbv | | 2.8 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.30 | 0.040 | 0.031 | ppbv | | 2.0 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.40 | 0.20 | 0.014 | ppbv | | 1.5 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.11 | 0.10 | 0.028 | ppbv | | 0.62 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.50 | 0.20 | 0.034 | ppbv | | 2.2 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.20 | 0.20 | 0.017 | ppbv | | 0.87 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.70 | 0.20 | 0.017 | ppbv | | 3.0 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-14SV | | |
| Lab Sample ID: JD36521-9 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1361 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46827.D | 1 | 12/15/21 05:45 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 20.0 | 0.20 | 0.11 | ppbv | | 47.5 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.73 | 0.20 | 0.012 | ppbv | | 2.3 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.20 | 0.024 | ppbv | | ND | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.18 | 0.20 | 0.020 | ppbv | J | 0.88 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.20 | 0.022 | ppbv | | ND | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | 0.15 | 0.20 | 0.012 | ppbv | J | 0.61 | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | 0.30 | 0.20 | 0.052 | ppbv | | 1.1 | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.25 | 0.20 | 0.017 | ppbv | | 1.2 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.9

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-14SV | | |
| Lab Sample ID: JD36521-9 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1361 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.9

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 6.2 | 0.50 | 0.22 | ppbv | | 12 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.32 | 0.20 | 0.015 | ppbv | | 1.4 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 1.1 | 0.20 | 0.038 | ppbv | | 4.0 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.52 | 0.20 | 0.030 | ppbv | | 2.6 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.87 | 0.20 | 0.018 | ppbv | | 3.6 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.71 | 0.20 | 0.011 | ppbv | | 2.5 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 1.1 | 0.20 | 0.065 | ppbv | | 2.7 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.20 | 0.015 | ppbv | | ND | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 40.2 | 0.20 | 0.042 | ppbv | | 119 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 9.6 | 0.50 | 0.016 | ppbv | | 16 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.14 | 0.20 | 0.019 | ppbv | J | 0.60 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 0.24 | 0.10 | 0.033 | ppbv | | 1.3 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.43 | 0.20 | 0.033 | ppbv | | 2.1 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.13 | 0.20 | 0.034 | ppbv | J | 0.64 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.23 | 0.20 | 0.022 | ppbv | | 1.1 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 2.9 | 0.20 | 0.014 | ppbv | | 8.8 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.85 | 0.040 | 0.031 | ppbv | | 5.8 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.89 | 0.20 | 0.014 | ppbv | | 3.4 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.097 | 0.10 | 0.028 | ppbv | J | 0.55 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 1.1 | 0.20 | 0.034 | ppbv | | 4.8 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.47 | 0.20 | 0.017 | ppbv | | 2.0 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.6 | 0.20 | 0.017 | ppbv | | 6.9 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 113% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-16SV | | Date Sampled: 12/08/21 |
| Lab Sample ID: JD36521-10 | | Date Received: 12/09/21 |
| Matrix: AIR - Soil Vapor Comp. Summa ID: A1359 | | Percent Solids: n/a |
| Method: TO-15 | | |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46829.D | 1 | 12/15/21 07:33 | DFT | n/a | n/a | V5W1936 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 17.5 | 0.20 | 0.11 | ppbv | | 41.6 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 1.0 | 0.20 | 0.012 | ppbv | | 3.2 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 5.5 | 0.20 | 0.024 | ppbv | | 17 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.35 | 0.20 | 0.020 | ppbv | | 1.7 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.096 | 0.20 | 0.015 | ppbv | J | 0.20 | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 0.55 | 0.20 | 0.022 | ppbv | | 1.9 | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.32 | 0.20 | 0.017 | ppbv | | 1.6 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.10

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-16SV | | |
| Lab Sample ID: JD36521-10 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1359 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.10

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 4.1 | 0.50 | 0.22 | ppbv | | 7.7 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.22 | 0.20 | 0.015 | ppbv | | 0.96 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 1.2 | 0.20 | 0.038 | ppbv | | 4.3 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.34 | 0.20 | 0.030 | ppbv | | 1.7 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.89 | 0.20 | 0.018 | ppbv | | 3.6 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 1.2 | 0.20 | 0.011 | ppbv | | 4.2 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | 5.5 | 0.20 | 0.036 | ppbv | | 22 | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.38 | 0.20 | 0.065 | ppbv | | 0.93 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.20 | 0.015 | ppbv | | ND | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 41.1 | 0.20 | 0.042 | ppbv | | 121 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 15.8 | 0.50 | 0.016 | ppbv | | 27.1 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.22 | 0.20 | 0.019 | ppbv | | 0.94 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 0.63 | 0.10 | 0.033 | ppbv | | 3.4 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.27 | 0.20 | 0.033 | ppbv | | 1.3 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.034 | ppbv | | ND | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.31 | 0.20 | 0.022 | ppbv | | 1.4 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 1.5 | 0.20 | 0.014 | ppbv | | 4.5 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.85 | 0.040 | 0.031 | ppbv | | 5.8 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 1.3 | 0.20 | 0.014 | ppbv | | 4.9 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 0.19 | 0.040 | 0.019 | ppbv | | 1.0 | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.24 | 0.10 | 0.028 | ppbv | | 1.3 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.76 | 0.20 | 0.034 | ppbv | | 3.3 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.31 | 0.20 | 0.017 | ppbv | | 1.3 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.1 | 0.20 | 0.017 | ppbv | | 4.8 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-36SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-11 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1358 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46843.D | 1 | 12/15/21 19:56 | DFT | n/a | n/a | V5W1937 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 11.0 | 0.20 | 0.11 | ppbv | | 26.1 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.59 | 0.20 | 0.012 | ppbv | | 1.9 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 0.51 | 0.20 | 0.024 | ppbv | | 1.6 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.40 | 0.20 | 0.020 | ppbv | | 2.0 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 0.16 | 0.20 | 0.022 | ppbv | J | 0.55 | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | 0.98 | 0.20 | 0.012 | ppbv | | 4.0 | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.27 | 0.20 | 0.017 | ppbv | | 1.3 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-36SV | | |
| Lab Sample ID: JD36521-11 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1358 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.11

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 2.8 | 0.50 | 0.22 | ppbv | | 5.3 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.20 | 0.20 | 0.015 | ppbv | | 0.87 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 1.4 | 0.20 | 0.038 | ppbv | | 5.0 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.47 | 0.20 | 0.030 | ppbv | | 2.3 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.38 | 0.20 | 0.018 | ppbv | | 1.6 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.40 | 0.20 | 0.011 | ppbv | | 1.4 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | 3.3 | 0.20 | 0.036 | ppbv | | 13 | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.35 | 0.20 | 0.065 | ppbv | | 0.86 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.20 | 0.015 | ppbv | | ND | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 24.4 | 0.20 | 0.042 | ppbv | | 72.0 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.50 | 0.016 | ppbv | | ND | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.13 | 0.20 | 0.019 | ppbv | J | 0.55 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 0.57 | 0.10 | 0.033 | ppbv | | 3.1 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.54 | 0.20 | 0.033 | ppbv | | 2.7 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.21 | 0.20 | 0.034 | ppbv | | 1.0 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.022 | ppbv | | ND | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 0.94 | 0.20 | 0.014 | ppbv | | 2.8 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.28 | 0.040 | 0.031 | ppbv | | 1.9 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.55 | 0.20 | 0.014 | ppbv | | 2.1 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.20 | 0.10 | 0.028 | ppbv | | 1.1 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.71 | 0.20 | 0.034 | ppbv | | 3.1 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.32 | 0.20 | 0.017 | ppbv | | 1.4 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.0 | 0.20 | 0.017 | ppbv | | 4.3 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-02SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-12 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1365 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46844.D | 1 | 12/15/21 20:50 | DFT | n/a | n/a | V5W1937 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 1.6 | 0.20 | 0.11 | ppbv | | 3.8 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 2.4 | 0.20 | 0.012 | ppbv | | 7.7 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 0.12 | 0.20 | 0.024 | ppbv | J | 0.37 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 0.26 | 0.20 | 0.020 | ppbv | | 1.3 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 0.11 | 0.20 | 0.022 | ppbv | J | 0.38 | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.20 | 0.012 | ppbv | | ND | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.19 | 0.20 | 0.017 | ppbv | J | 0.94 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-02SV | | |
| Lab Sample ID: JD36521-12 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1365 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.12

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 1.2 | 0.50 | 0.22 | ppbv | | 2.3 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.19 | 0.20 | 0.015 | ppbv | J | 0.83 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 1.1 | 0.20 | 0.038 | ppbv | | 4.0 | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.44 | 0.20 | 0.030 | ppbv | | 2.2 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.12 | 0.20 | 0.018 | ppbv | J | 0.49 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.28 | 0.20 | 0.011 | ppbv | | 0.99 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | 0.47 | 0.20 | 0.036 | ppbv | | 1.9 | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.19 | 0.20 | 0.065 | ppbv | J | 0.47 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.20 | 0.20 | 0.015 | ppbv | | 0.69 | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 1.7 | 0.20 | 0.042 | ppbv | | 5.0 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.50 | 0.016 | ppbv | | ND | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.20 | 0.20 | 0.019 | ppbv | | 0.85 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 0.21 | 0.10 | 0.033 | ppbv | | 1.1 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.40 | 0.20 | 0.033 | ppbv | | 2.0 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.11 | 0.20 | 0.034 | ppbv | J | 0.54 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.022 | ppbv | | ND | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 0.24 | 0.20 | 0.014 | ppbv | | 0.73 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.43 | 0.040 | 0.031 | ppbv | | 2.9 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.20 | 0.050 | ppbv | | ND | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.53 | 0.20 | 0.014 | ppbv | | 2.0 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.10 | 0.028 | ppbv | | ND | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.67 | 0.20 | 0.034 | ppbv | | 2.9 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.27 | 0.20 | 0.017 | ppbv | | 1.2 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.94 | 0.20 | 0.017 | ppbv | | 4.1 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|--|--------------------------------|
| Client Sample ID: TT-SB-17SV | | |
| Lab Sample ID: JD36521-13 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. Summa ID: A1362 | | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46846.D | 1 | 12/15/21 22:40 | DFT | n/a | n/a | V5W1937 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 400 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|--------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 2.0 | 0.20 | 0.11 | ppbv | | 4.8 | 0.48 | 0.26 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.20 | 0.046 | ppbv | | ND | 0.44 | 0.10 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.94 | 0.20 | 0.012 | ppbv | | 3.0 | 0.64 | 0.038 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.67 | 0.18 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.040 | 0.037 | ppbv | | ND | 0.41 | 0.38 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.20 | 0.022 | ppbv | | ND | 0.78 | 0.085 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.20 | 0.022 | ppbv | | ND | 0.87 | 0.096 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.20 | 0.057 | ppbv | | ND | 1.0 | 0.29 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 1.3 | 0.20 | 0.024 | ppbv | | 4.0 | 0.62 | 0.075 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.20 | 0.026 | ppbv | | ND | 0.92 | 0.12 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 0.53 | 0.13 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | 5.0 | 0.20 | 0.020 | ppbv | | 24 | 0.98 | 0.098 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.20 | 0.015 | ppbv | | ND | 0.41 | 0.031 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.20 | 0.040 | ppbv | | ND | 0.63 | 0.13 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.20 | 0.025 | ppbv | | ND | 1.0 | 0.13 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.040 | 0.024 | ppbv | | ND | 0.25 | 0.15 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 0.60 | 0.20 | 0.022 | ppbv | | 2.1 | 0.69 | 0.076 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | 1.6 | 0.20 | 0.012 | ppbv | | 6.5 | 0.81 | 0.049 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.040 | 0.017 | ppbv | | ND | 0.16 | 0.067 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.10 | 0.018 | ppbv | | ND | 0.77 | 0.14 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.20 | 0.021 | ppbv | | ND | 0.81 | 0.085 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.20 | 0.019 | ppbv | | ND | 0.92 | 0.088 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.20 | 0.052 | ppbv | | ND | 0.72 | 0.19 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.25 | 0.20 | 0.017 | ppbv | | 1.2 | 0.99 | 0.084 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.10 | 0.033 | ppbv | | ND | 0.85 | 0.28 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.0073 | ppbv | | ND | 0.79 | 0.029 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.040 | 0.012 | ppbv | | ND | 0.16 | 0.048 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.10 | 0.019 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.040 | 0.022 | ppbv | | ND | 0.24 | 0.13 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.10 | 0.018 | ppbv | | ND | 0.60 | 0.11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.20 | 0.020 | ppbv | | ND | 0.91 | 0.091 | ug/m3 |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.13

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | TT-SB-17SV | Date Sampled: | 12/08/21 |
| Lab Sample ID: | JD36521-13 | Date Received: | 12/09/21 |
| Matrix: | AIR - Soil Vapor Comp. Summa ID: A1362 | Percent Solids: | n/a |
| Method: | TO-15 | | |
| Project: | 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.13

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 2.1 | 0.50 | 0.22 | ppbv | | 4.0 | 0.94 | 0.41 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.33 | 0.20 | 0.015 | ppbv | | 1.4 | 0.87 | 0.065 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.20 | 0.038 | ppbv | | ND | 0.72 | 0.14 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | 0.53 | 0.20 | 0.030 | ppbv | | 2.6 | 0.98 | 0.15 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.10 | 0.017 | ppbv | | ND | 0.77 | 0.13 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.10 | 0.019 | ppbv | | ND | 0.70 | 0.13 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.23 | 0.20 | 0.018 | ppbv | | 0.94 | 0.82 | 0.074 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.090 | 0.046 | ppbv | | ND | 0.96 | 0.49 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.48 | 0.20 | 0.011 | ppbv | | 1.7 | 0.70 | 0.039 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.46 | 0.20 | 0.065 | ppbv | | 1.1 | 0.49 | 0.16 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.20 | 0.015 | ppbv | | ND | 0.69 | 0.052 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 2.9 | 0.20 | 0.042 | ppbv | | 8.6 | 0.59 | 0.12 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.20 | 0.036 | ppbv | | ND | 0.82 | 0.15 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.20 | 0.019 | ppbv | | ND | 0.72 | 0.069 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.20 | 0.033 | ppbv | | ND | 0.82 | 0.14 | ug/m3 |
| 115-07-1 | 42 | Propylene | 3.0 | 0.50 | 0.016 | ppbv | | 5.2 | 0.86 | 0.027 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | 0.27 | 0.20 | 0.019 | ppbv | | 1.1 | 0.85 | 0.081 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | 5.3 | 0.10 | 0.033 | ppbv | | 29 | 0.55 | 0.18 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.027 | ppbv | | ND | 0.69 | 0.19 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.10 | 0.030 | ppbv | | ND | 0.55 | 0.16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.089 | ppbv | | ND | 0.74 | 0.66 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | 0.45 | 0.20 | 0.033 | ppbv | | 2.2 | 0.98 | 0.16 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | 0.12 | 0.20 | 0.034 | ppbv | J | 0.59 | 0.98 | 0.17 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | 0.37 | 0.20 | 0.022 | ppbv | | 1.7 | 0.93 | 0.10 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | 0.70 | 0.20 | 0.014 | ppbv | | 2.1 | 0.61 | 0.042 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.75 | 0.040 | 0.031 | ppbv | | 5.1 | 0.27 | 0.21 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | 0.26 | 0.20 | 0.050 | ppbv | | 0.77 | 0.59 | 0.15 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 1.4 | 0.20 | 0.014 | ppbv | | 5.3 | 0.75 | 0.053 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | 0.10 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.16 | 0.10 | 0.028 | ppbv | | 0.90 | 0.56 | 0.16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.040 | 0.022 | ppbv | | ND | 0.10 | 0.056 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.20 | 0.034 | ppbv | | ND | 0.70 | 0.12 | ug/m3 |
| | 106.2 | m,p-Xylene | 1.1 | 0.20 | 0.034 | ppbv | | 4.8 | 0.87 | 0.15 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | 0.43 | 0.20 | 0.017 | ppbv | | 1.9 | 0.87 | 0.074 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 1.5 | 0.20 | 0.017 | ppbv | | 6.5 | 0.87 | 0.074 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-21SV | | |
| Lab Sample ID: JD36521-14 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1357 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|------|----------------|-----|-----------|------------|------------------|
| Run #1 | 5W46847.D | 3.58 | 12/15/21 23:42 | DFT | n/a | n/a | V5W1937 |
| Run #2 | | | | | | | |

| Run # | Initial Volume |
|--------|----------------|
| Run #1 | 800 ml |
| Run #2 | |

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|------------|-------|----------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 5.2 | 0.36 | 0.20 | ppbv | | 12 | 0.86 | 0.48 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.36 | 0.083 | ppbv | | ND | 0.80 | 0.18 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.90 | 0.36 | 0.021 | ppbv | | 2.9 | 1.2 | 0.067 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.18 | 0.048 | ppbv | | ND | 1.2 | 0.32 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.072 | 0.067 | ppbv | | ND | 0.74 | 0.69 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.36 | 0.039 | ppbv | | ND | 1.4 | 0.15 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.36 | 0.039 | ppbv | | ND | 1.6 | 0.17 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.36 | 0.10 | ppbv | | ND | 1.9 | 0.52 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.36 | 0.042 | ppbv | | ND | 1.1 | 0.13 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.36 | 0.047 | ppbv | | ND | 1.7 | 0.22 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.36 | 0.087 | ppbv | | ND | 0.95 | 0.23 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.36 | 0.036 | ppbv | | ND | 1.8 | 0.18 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.36 | 0.36 | 0.027 | ppbv | | 0.74 | 0.74 | 0.056 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.36 | 0.071 | ppbv | | ND | 1.1 | 0.22 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.36 | 0.045 | ppbv | | ND | 1.9 | 0.23 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.072 | 0.042 | ppbv | | ND | 0.45 | 0.26 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | 3.1 | 0.36 | 0.039 | ppbv | | 11 | 1.2 | 0.13 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.36 | 0.021 | ppbv | | ND | 1.5 | 0.085 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.072 | 0.030 | ppbv | | ND | 0.29 | 0.12 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.18 | 0.032 | ppbv | | ND | 1.4 | 0.25 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.36 | 0.037 | ppbv | | ND | 1.5 | 0.15 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.36 | 0.034 | ppbv | | ND | 1.7 | 0.16 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.36 | 0.093 | ppbv | | ND | 1.3 | 0.34 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.31 | 0.36 | 0.030 | ppbv | J | 1.5 | 1.8 | 0.15 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.18 | 0.060 | ppbv | | ND | 1.5 | 0.51 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.36 | 0.013 | ppbv | | ND | 1.4 | 0.052 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.072 | 0.021 | ppbv | | ND | 0.29 | 0.083 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.36 | 0.035 | ppbv | | ND | 1.6 | 0.16 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.18 | 0.034 | ppbv | | ND | 1.1 | 0.20 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.072 | 0.039 | ppbv | | ND | 0.43 | 0.23 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.18 | 0.031 | ppbv | | ND | 1.1 | 0.19 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.36 | 0.035 | ppbv | | ND | 1.6 | 0.16 | ug/m3 |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.14

Report of Analysis

| | | |
|---|------------------------|--------------------------------|
| Client Sample ID: TT-SB-21SV | | |
| Lab Sample ID: JD36521-14 | | Date Sampled: 12/08/21 |
| Matrix: AIR - Soil Vapor Comp. | Summa ID: A1357 | Date Received: 12/09/21 |
| Method: TO-15 | | Percent Solids: n/a |
| Project: 2nd Avenue and 33-39th Street, Brooklyn, NY | | |

4.14

VOA TO15 List

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|-----------|--------|---------------------------|--------|-------|-------|-------|---|--------|------|-------|-------|
| 64-17-5 | 46.07 | Ethanol | 7.6 | 0.90 | 0.39 | ppbv | | 14 | 1.7 | 0.73 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | 0.096 | 0.36 | 0.027 | ppbv | J | 0.42 | 1.6 | 0.12 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 8.3 | 0.36 | 0.067 | ppbv | | 30 | 1.3 | 0.24 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.36 | 0.053 | ppbv | | ND | 1.8 | 0.26 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.18 | 0.031 | ppbv | | ND | 1.4 | 0.24 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.18 | 0.034 | ppbv | | ND | 1.3 | 0.24 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.85 | 0.36 | 0.031 | ppbv | | 3.5 | 1.5 | 0.13 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.16 | 0.082 | ppbv | | ND | 1.7 | 0.87 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 2.2 | 0.36 | 0.019 | ppbv | | 7.8 | 1.3 | 0.067 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.36 | 0.065 | ppbv | | ND | 1.5 | 0.27 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.74 | 0.36 | 0.12 | ppbv | | 1.8 | 0.88 | 0.29 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.36 | 0.026 | ppbv | | ND | 1.3 | 0.090 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 1.0 | 0.36 | 0.075 | ppbv | | 2.9 | 1.1 | 0.22 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.36 | 0.064 | ppbv | | ND | 1.5 | 0.26 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.36 | 0.034 | ppbv | | ND | 1.3 | 0.12 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.36 | 0.058 | ppbv | | ND | 1.5 | 0.24 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 0.90 | 0.028 | ppbv | | ND | 1.5 | 0.048 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.36 | 0.034 | ppbv | | ND | 1.5 | 0.14 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.18 | 0.059 | ppbv | | ND | 0.98 | 0.32 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.18 | 0.049 | ppbv | | ND | 1.2 | 0.34 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.18 | 0.054 | ppbv | | ND | 0.98 | 0.29 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.18 | 0.16 | ppbv | | ND | 1.3 | 1.2 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.36 | 0.059 | ppbv | | ND | 1.8 | 0.29 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.36 | 0.060 | ppbv | | ND | 1.8 | 0.29 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.36 | 0.039 | ppbv | | ND | 1.7 | 0.18 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.36 | 0.025 | ppbv | | ND | 1.1 | 0.076 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.072 | 0.055 | ppbv | | ND | 0.49 | 0.37 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.36 | 0.090 | ppbv | | ND | 1.1 | 0.27 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.62 | 0.36 | 0.026 | ppbv | | 2.3 | 1.4 | 0.098 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.072 | 0.034 | ppbv | | ND | 0.39 | 0.18 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.20 | 0.18 | 0.050 | ppbv | | 1.1 | 1.0 | 0.28 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.072 | 0.040 | ppbv | | ND | 0.18 | 0.10 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.36 | 0.061 | ppbv | | ND | 1.3 | 0.21 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.30 | 0.36 | 0.061 | ppbv | J | 1.3 | 1.6 | 0.26 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.36 | 0.030 | ppbv | | ND | 1.6 | 0.13 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.30 | 0.36 | 0.030 | ppbv | J | 1.3 | 1.6 | 0.13 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 65-128% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



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Test results relate only to samples analyzed.

Dayton, NJ

Section 5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log



AIR

AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/enhsusa

| | |
|--------------------|------------------------------|
| FED-EX Tracking # | Bottle Order Control # |
| SGS Quote # | SGS Job # JD 36521 |
| Requested Analysis | |

| | | | | | | | |
|--|--|---|--|-------------------------------------|--|---------------------------------------|--|
| Client / Reporting Information | | Project Information | | Weather Parameters | | Requested Analysis | |
| Company Name TETRA TECH | | Project Name 2ND Ave # 3RD St | | Temperature (Fahrenheit) | | VTD15NYSVLL FC59 FC74 SH007A | |
| Address 6 CENTURY DR | | Street | | Start: Maximum: | | | |
| City PARSIPPANY NJ | | City BROOKLYN NY | | Stop: Minimum: | | | |
| State NJ | | State NY | | Atmospheric Pressure (Inches of Hg) | | | |
| Zip 07954 | | Project # | | Start: Maximum: | | | |
| Project Contact BOB CANTAGALLO | | Client Purchase Order # | | Stop: Minimum: | | | |
| E-mail BOB.CANTAGALLO@TETRA-TECH.COM | | | | Other weather comment: | | | |
| Phone # (973) 630-4045 | | | | | | | |
| Fax # | | | | | | | |
| Sampler(s) Name(s) A. VALU & CHRIS BEERS | | | | | | | |

| Lab Sample # | Field ID / Point of Collection | Air Type | Sampling Equipment Info | | | Start Sampling Information | | | | | Stop Sampling Information | | | | | |
|--------------|--------------------------------|----------|--------------------------------------|-------------------|------------------------|----------------------------|------|-------------------|-------------------------------------|-------------------|---------------------------|------|-------------------|-------------------------------------|-------------------|---------------|
| | | | Indoor (I) Soil Vap (SV) Ambient (A) | Canister Serial # | Canister Size 6L or 1L | Flow Controller Serial # | Date | Time (24hr clock) | Canister Pressure (H _g) | Interior Temp (F) | Sampler Init. | Date | Time (24hr clock) | Canister Pressure (H _g) | Interior Temp (F) | Sampler Init. |
| 1 | TT-SB-33SV | SV | A1363 | 6L | FC591 | 12/08/21 | 0740 | -24 | 36 | AV | 12/08/21 | 1450 | -3 | 43 | AV | ✓ |
| 2 | TT-SB-32SV | SV | A1363 | 6L | FC591 | 12/08/21 | 0750 | -30 | 36 | AV | 12/08/21 | 1453 | -5 | 43 | AV | ✓ |
| 3 | TT-SB-25SV | SV | M139 | 6L | FC707 | 12/08/21 | 0747 | -28 | 36 | AV | 12/08/21 | 1457 | -4 | 43 | AV | ✓ |
| 4 | TT-SB-24SV | SV | A1325 | 6L | FC920 | 12/08/21 | 0753 | -28 | 36 | AV | 12/08/21 | 1500 | -4 | 43 | AV | ✓ |
| 5 | TT-SB-39SV | SV | A743 | 6L | MC055 | 12/08/21 | 0849 | -30 | 38 | AV | 12/08/21 | 1552 | -3 | 40 | AV | ✓ |
| 6 | TT-SB-37SV | SV | M011 | 6L | MC269 | 12/08/21 | 0852 | -29 | 38 | AV | 12/08/21 | 1556 | -4 | 40 | AV | ✓ |
| 7 | TT-SB-A | A | M163 | 6L | FC828 | 12/8/21 | 0757 | -30 | 37 | AV | 12/08/21 | 1626 | -4 | 40 | AV | ✓ |
| 8 | TT-SB-19SV | SV | A1364 | 6L | FC421 | 12/8/21 | 0804 | -30 | 37 | AV | 12/08/21 | 1629 | -4 | 40 | AV | ✓ |
| 9 | TT-SB-14SV | SV | A1361 | 6L | FC610 | 12/8/21 | 0829 | -30 | 37 | AV | 12/08/21 | 1632 | -4 | 40 | AV | ✓ |
| 10 | TT-SB-16SV | SV | A1359 | 6L | MC282 | 12/08/21 | 0820 | -28 | 37 | AV | 12/08/21 | 1649 | -4 | 40 | AV | ✓ |

| | | | |
|--------------------|--------------------|--------------------------------------|---|
| Standard - 15 Days | Approved By: _____ | All NJDEP TO-15 is mandatory Full T1 | Sample inventory is verified upon receipt in the Laboratory |
| 10 Day | Date: _____ | Comm A | |
| 5 Day | | Comm B | |
| 3 Day | | Reduced T2 | |
| 2 Day | | Full T1 | |
| 1 Day | | Other: _____ | |
| Other | | DKQP reporting | |

Sample Custody must be documented below each time samples change possession, including courier delivery.

| | | | | | | |
|-------------------------------------|---------------------------|---------------------------------|--------------------|-------------------------------------|--------------------|---------------------------------|
| Relinquished by: [Signature] | Date Time: 12/09/21 12:00 | Received By: [Signature] | Date Time: 12/9/21 | Relinquished by: [Signature] | Date Time: 12/9/21 | Received By: [Signature] |
| Relinquished by: | Date Time: | Received By: | Date Time: | Relinquished by: | Date Time: | Received By: |
| Relinquished by: | Date Time: | Received By: | Date Time: | Relinquished by: | Date Time: | Received By: |
| Relinquished by: | Date Time: | Received By: | Date Time: | Relinquished by: | Date Time: | Received By: |





AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/en/susa

Form containing client/reporting information, project info, weather parameters, sampling data table, and custody transfer details. Includes handwritten entries for company name (TETRA TECH), address (6 CENTURY DR), project name (2ND AVE # 33RD), and sampling data for 4 samples.

Vertical handwritten text: VTO 15 NYSVLL

FC179





AIR SAMPLING EQUIPMENT RETURN FORM

CLIENT: Tetra Tech PROJECT: 2nd Ave & 3rd St.

CONTROL# _____ JOB # JD 3652

ADDITIONAL SUMMA CANISTERS
15 A1360

ADDITIONAL CONTROLLERS
FC730

| RELINQUISHED BY: | DATE & TIME: | RECEIVED BY: | DATE & TIME: |
|-------------------|--------------------------|----------------------------------|--------------|
| 1 <u>SGS</u> | <u>12/11/17</u> 17:33 | 2 <u>Jemmit Patel</u> | |
| RELINQUISHED BY: | DATE & TIME: | RECEIVED BY: | DATE & TIME: |
| 3 | | 4 | |
| CUSTODY SEAL #'S: | | # OF BOXES OR PIECES IN DELIVERY | |

NOTES:

SM086-03
Pub date: 3/12/18



SGS Sample Receipt Summary

Job Number: JD36521

Client: TETRA TECH

Project: 2ND AVENUE AND 33-39TH STREET, BROOKL

Date / Time Received: 12/9/2021 5:33:00 PM

Delivery Method:

Airbill #'s:

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|--------------------------|--------------------------|
| 1. Temp criteria achieved: | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | N/A | |
| 3. Cooler media: | N/A | |
| 4. No. Coolers: | N/A | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | |
|--------------------|-----------------|-----------------|------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) |
|--------------------|-----------------|-----------------|------------------|

Comments

SM089-03
Rev. Date 12/7/17

JD36521: Chain of Custody

Page 4 of 4



5.1

Summa Canister and Flow Controller Log

Job Number: JD36521
 Account: TTNJP Tetra Tech
 Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
 Received: 12/09/21

| SUMMA CANISTERS | | | | | | | | | | | | | |
|-----------------|-------|-----------|----------|----|-----------|------------|---------------|----------|-----|----------|-----------|------------|----------|
| Shipping | | | | | | Receiving | | | | | | | |
| Summa ID | Vac L | Date " Hg | Date Out | By | SCC Batch | SCC FileID | Sample Number | Date In | By | Vac " Hg | Pres psig | Final psig | Dil Fact |
| A1363 | 6 | 29.4 | 12/03/21 | MJ | CP11430 | 5W46399.D | JD36521-1 | 12/14/21 | DFT | 1 | | | 1 |
| A1112 | 6 | 29.4 | 12/03/21 | MJ | CP11433 | 6W23222.D | JD36521-2 | 12/14/21 | DFT | 3 | | | 1 |
| M139 | 6 | 29.4 | 12/03/21 | MJ | CP11424 | 5W46322.D | JD36521-3 | 12/14/21 | DFT | 5 | | | 1 |
| A1325 | 6 | 29.4 | 12/03/21 | MJ | CP11406 | 2W55993.D | JD36521-4 | 12/14/21 | DFT | 4 | | | 1 |
| A743 | 6 | 29.4 | 12/03/21 | MJ | CP11399 | 2W55956.D | JD36521-5 | 12/13/21 | SG | 1 | | | 1 |
| M011 | 6 | 29.4 | 12/03/21 | MJ | CP11417 | 5W46171.D | JD36521-6 | 12/14/21 | DFT | 2 | | | 1 |
| M163 | 6 | 29.4 | 12/07/21 | MJ | CP11433 | 6W23222.D | JD36521-7 | 12/13/21 | SG | 1.5 | | | 1 |
| A1364 | 6 | 29.4 | 12/03/21 | MJ | CP11430 | 5W46399.D | JD36521-8 | 12/14/21 | DFT | 2 | | | 1 |
| A1361 | 6 | 29.4 | 12/03/21 | MJ | CP11430 | 5W46399.D | JD36521-9 | 12/14/21 | DFT | 2.5 | | | 1 |
| A1359 | 6 | 29.4 | 12/03/21 | MJ | CP11430 | 5W46399.D | JD36521-10 | 12/14/21 | DFT | 1 | | | 1 |
| A1358 | 6 | 29.4 | 12/03/21 | MJ | CP11428 | 5W46401.D | JD36521-11 | 12/14/21 | DFT | 0 | | | 1 |
| A1365 | 6 | 29.4 | 12/03/21 | MJ | CP11422 | 5W46318.D | JD36521-12 | 12/14/21 | DFT | 3 | | | 1 |
| A1362 | 6 | 29.4 | 12/03/21 | MJ | CP11430 | 5W46399.D | JD36521-13 | 12/14/21 | DFT | 0 | | | 1 |
| A1357 | 6 | 29.4 | 12/03/21 | MJ | CP11428 | 5W46401.D | JD36521-14 | 12/14/21 | DFT | 21 | | 1 | 3.58 |

| FLOW CONTROLLERS / OTHER | | | | | | | | | | |
|--------------------------|----------|----|---------|-----------|-----------|----|---------|----------|-----------------|--|
| Shipping | | | | | Receiving | | | | | |
| Flow Ctrl ID | Date Out | By | cc/ min | Time hrs. | Date In | By | cc/ min | Flow RPD | Equipment Type | |
| FC179 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 11.4 | 4.5 | Flow Controller | |
| FC421 | 12/03/21 | MJ | 10.8 | 8 | 12/20/21 | MJ | 10.9 | 0.9 | Flow Controller | |
| FC591 | 12/03/21 | MJ | 10.7 | 8 | 12/20/21 | MJ | 13 | 19.4 | Flow Controller | |
| FC610 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 0 | 200* | Flow Controller | |
| FC707 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 11.3 | 3.6 | Flow Controller | |
| FC713 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 12.3 | 12.1 | Flow Controller | |
| FC730 | 12/03/21 | MJ | 10.7 | 8 | 12/20/21 | MJ | 11.1 | 3.7 | Flow Controller | |
| FC828 | 12/07/21 | MJ | 10.9 | 8 | 12/14/21 | SG | 10.2 | 6.6 | Flow Controller | |
| FC917 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 11.8 | 7.9 | Flow Controller | |
| FC928 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 11.4 | 4.5 | Flow Controller | |
| MC055 | 12/03/21 | MJ | 10.8 | 8 | 12/20/21 | MJ | 12.9 | 17.7 | Flow Controller | |
| MC189 | 12/03/21 | MJ | 10.7 | 8 | 12/20/21 | MJ | 12.4 | 14.7 | Flow Controller | |
| MC232 | 12/03/21 | MJ | 10.9 | 8 | 12/20/21 | MJ | 11.4 | 4.5 | Flow Controller | |
| MC254 | 12/03/21 | MJ | 10.8 | 8 | 12/20/21 | MJ | 10.9 | 0.9 | Flow Controller | |
| MC269 | 12/03/21 | MJ | 10.8 | 8 | 12/20/21 | MJ | 0 | 200* | Flow Controller | |

* Flow controller RPD > 20%

SGS Bottle Order(s):

JS-12121-242
 JS-12721-27

5.2

Summa Canister and Flow Controller Log

Job Number: JD36521
Account: TTNJP Tetra Tech
Project: 2nd Avenue and 33-39th Street, Brooklyn, NY
Received: 12/09/21

| FLOW CONTROLLERS / OTHER | | | | | | | | | |
|--------------------------|----------|----|---------|-----------|-----------|----|---------|----------|----------------|
| Shipping | | | | | Receiving | | | | |
| Flow Crtl ID | Date Out | By | cc/ min | Time hrs. | Date In | By | cc/ min | Flow RPD | Equipment Type |

| | | |
|------------------|---------------------|---------------------|
| Prep Date | Room Temp(F) | Bar Pres "Hg |
| 12/03/21 | 70 | 29.92 |
| 12/07/21 | 70 | 29.92 |

5.2