127 12th Street
Remedial Investigation Work Plan

127 12th Street
Brooklyn, New York
Block 1220, Lot 52
BCP Site No. C224411

Submitted to:
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
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December 2025

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CERTIFICATION

I, Matthew M. Carroll, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Work Plan was prepared in accordance with all applicable statues and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).

_____ 12/16/2025_____
Matthew M. Carroll, PE Date

1.0 INTRODUCTION

On behalf of Di Maio Enterprises Inc. (the Participant), Matthew M. Carroll, PE has prepared this Remedial Investigation Work Plan (RIWP) for the property located at 127 12th Street, Brooklyn, New York (the Site). The Participant was accepted into the Brownfield Cleanup Program (BCP) by the New York State Department of Environmental Conservation (NYSDEC) and a Brownfield Cleanup Agreement (BCA) was executed between the parties on September 24, 2024. The Site was assigned NYSDEC BCP Site Number C224411, and the BCA index number is C224411-08-24.

The Site location and layout are shown on Figures 1 and 2, respectively. The RIWP has been designed to define the nature and extent of contamination on-Site, identify contaminant source areas, and produce data of sufficient quantity and quality to complete an on-Site exposure assessment and a qualitative off-Site exposure assessment for purposes of designing the remedial action for the Site. The scope of work includes the collection of subsurface soils, groundwater, and soil vapor to assess the nature and extent of contamination across the Site and offsite. The results of the remedial investigation (RI) will be used to prepare a Remedial Investigation Report (RIR) and qualitative human health exposure assessment (QHHEA) and to support the development of a Remedial Action Work Plan (RAWP). This RIWP has been prepared in accordance with Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375, the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10, May 3, 2010), the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, with May 2017 updates), and all other applicable regulatory and procedural requirements. An off-site soil vapor intrusion investigation will be conducted under a separate work plan.

1.1 Work Plan Organization

This RIWP includes an introduction (Section 1), background information (Section 2), scope of work (Section 3) and project schedule (Section 4). Quality assurance/quality control, health and safety (including community air monitoring), and project team information are addressed in separate appendices. Supporting tables and figures referenced throughout are included at the end and as attachments to this RIWP.

1.2 Regulatory Interaction

The Site was an active RCRA Large Quantity Generator (LQG)/handler with designation NYD987029535. The LQG designation is associated with earlier operations and the Site has operated as a Conditionally Exempt Small Quantity Generator (CESQG) or non-generator for several years, with the exception of a clean-out event in 2018. A Phase II Investigation was completed by Tenen in 2023/2024 to identify if impacts existed onsite due to historical and current Site operations. Sampling was performed in order to support a RCRA Closure for the future cessation of current metal finishing, predominantly through spray booth painting and lacquering operations and the renovation of the building for other commercial uses. Once the due diligence results were available, Tenen consulted with RCRA program staff and based on their recommendation reached out to the NYSDEC Department of Environmental Remediation (DER) for a BCP pre-application meeting; this meeting occurred on August 11, 2023.

The Participant was accepted into the BCP as a Participant via the execution of a BCA on September 24, 2024, the BCA index number is C224411-08-24.

1.3 Areas of Concern (AOCs)

The following AOCs were identified during the 2023 and 2024 Phase II Investigations:

- Hazardous waste storage in the southeastern portion of the Site basement

- The presence of an oil tank in the southwestern portion of the Site basement
- Oil storage in the central portion of the Site basement
- Degreaser and PCE storage in the southwestern portion of the first floor of the Site building
- Lacquer storage in the northeast corner of the first floor of the Site building
- The presence of spray booths and a vapor degreaser in the northern portion of the first floor of the Site building

1.4 Work Plan Objectives

This RIWP has been developed to achieve the following BCP objectives:

- Delineation of the areal and vertical extent of the contamination at, and emanating from all media at the Site and the nature of that contamination;
- Characterization of the surface and subsurface characteristics of the Site, including topography, surface drainage, ecological resources, stratigraphy, depth to groundwater, and any aquifers that have been impacted or have the potential to be impacted;
- Identification of the sources of contamination, the migration pathways and actual or potential receptors of contaminants;
- Evaluation of actual and potential threats to public health and the environment; and,
- Production of data of sufficient quantity and quality to support the necessity for, and the proposed extent of, remediation and to support the evaluation of proposed alternatives.

2.0 BACKGROUND

This section includes a description of the Site and surrounding uses, a summary of the proposed Site development, Site characteristics, and information regarding historical operations and regulatory interactions. Summaries of previous Site investigations are also provided.

2.1 Site Description and Surrounding Uses

The Site, located at 127 12th Street, Brooklyn, New York (Tax Block 1020, Lot 52), is a rectangular shaped parcel located midblock on the northeastern side 12th Street. The Site is bound by 12th Street to the south, industrial and manufacturing properties to the east, a parking lot and recreational facility/NYC park to the west, and residential properties followed by 11th Street to the north. The Site is approximately 17,900 square feet (SF) and has approximately 179 feet of frontage along 12th Street. The Site is currently improved with a two-story masonry building built in 1931. The Site building houses one commercial space with an area of approximately 25,334 SF. The building is currently utilized for metal finishing, predominantly through spray booth painting and lacquering operations. The building footprint comprises approximately 85% of the total Site area with 158 feet of frontage along 12th Street and a depth of 96 feet. The remainder of the Site is paved, with the eastern portion used for parking.

The Site lot is zoned M2-1 denoting light industrial uses, such as woodworking shops, repair shops, and wholesale service and storage facilities. M2-1 districts are often characterized by one- or two-story warehouses with loading bays and are often buffers between M2 or M3 districts and adjacent residential or commercial districts. Offices, hotels and most retail uses are also permitted under this zoning designation.

Site location and layout are depicted on Figures 1 and 2, respectively. Figure 2 depicts the approximate location of building features associated with cVOC usage, hazardous waste storage and oil storage.

2.1.1 Sensitive Receptors

In accordance with DER-10, Section 3.3(c), sensitive receptors were identified within one-half mile of the Site using the New York City Office of Environmental Remediation (OER) SPEED portal. Below is a table of the sensitive receptors identified and their respective distance from the Site.

Sensitive Receptor	Distance from BCP Site C224411
124 11th Street – Ennis Playground	198 feet (0.04 miles)
459 3rd Avenue – Platinum Daycare Inc.	728 feet (0.14 miles)
25 12th Street – Health Care Facility	1,183 feet (0.22 miles)
Parks and Plaza's – Triangle Three Sixteen	1,1,45 feet (0.22 miles)
515 4th Avenue – P.S. 124 Silas B. Dutcher	1,259 feet (0.24 miles)
220 13th Street – Park Slope Family Health Center	1,356 feet (0.26 miles)
199 14th Street – 14th Street Preschool	1,414 feet (0.27 miles)
211 8th Street – The Maurice Sendak Community School	1,550 feet (0.29 miles)
Parks and Plaza's - Park	1,625 feet (0.31 miles)
Parks and Plaza's - Park	1,630 feet (0.31 miles)
15 2nd Avenue – Health Care Facility	1,769 feet (0.34 miles)
371 4th Avenue – Daycare and Pre-K	1,974 feet (0.37 miles)

204 15th Street – Honeydew Drop Playhouse	1,988 feet (0.38 miles)
552 5th Avenue – Daycare and Pre-K	2,002 feet (0.38 miles)
383 3rd Avenue – Al -Madinah School	2,024 feet (0.38 miles)
556 5th Avenue – Daycare and Pre-K	2,062 feet (0.39 miles)
604 5th Avenue – Park	2,091 feet (0.40 miles)
296 5th Street – Daycare and Pre-K	2,190 feet (0.41miles)
343 4th Avenue – NY Presbyterian Hospital Infusion Services	2,225 feet (0.42 miles)
358 4th Avenue – Health Care Facility	2,212 feet (0.42 miles)

2.2 Proposed Development

The interior of the Site building will be demolished and renovated for commercial or light industrial uses. The proposed renovation and end use is consistent with the existing zoning and the recent development in this area of Brooklyn.

2.3 Site Characteristics

2.3.1 Site Topography

Based on the U.S. Geological Survey (USGS 7.5 Minute Topographic Quadrangles: Brooklyn NY; Jersey City, NJ) topographic map, the Site is located at an elevation of approximately 23 feet above mean sea level (msl) and is relatively flat.

2.3.2 Site Geology and Hydrogeology

Soils encountered during the Phase II Investigations included historical fill material extending from basement grade to varying depths up to 6 feet below basement grade (ft-bbg) (approximately 14 feet below sidewalk grade [ft-bsg]); the terminal boring depth. Native material underlying the fill layer was encountered at depths between ~3 to 5 ft-bbg (approximately 11 to 13 ft-bsg) with the exception of soil boring locations SB-4 and SB-11, where only fill material was observed. The fill layer included mainly fine to coarse, light to dark brown and gray sand with varying amounts of gravel, silt; and lesser/trace amounts of brick, coal, concrete, glass, and wood. Apparent underlying native material is composed primarily of fine to coarse sand, with varying amounts of clay, silt, and gravel.

Based on our review of the geology surrounding the area of the Site, four geologic units (in order of increasing depth and age) lie beneath the Gowanus area of Brooklyn: 1) fill, 2) alluvial/marsh deposits, 3) glacial sands and silts, and 4) bedrock. Fill materials are associated with nearby canal construction and subsequent industrialization and regrading of the area, much of which was originally marshland. The fill consists of silts, sands and gravels mixed with ash and fragments of brick, metal, glass, concrete, wood, and other debris. The alluvial/marsh deposits lie below the fill and are composed of sands (alluvial deposits from flowing water bodies), peat organic silts and clays (marsh deposits). These alluvial/marsh deposits are associated with the original wetlands complex (i.e., native sediment) that was present when the area was settled. A thick sequence of glacial deposits occurs below the alluvial/marsh deposits. These glacial sands, silts, and gravel were deposited as glacial ice melted during the retreat of the last ice age. At the base of the glacial sequence lies a layer of dense clay, deposited by the glacier or prior to glaciation. Weathered and competent bedrock underlies the glacial deposits. The bedrock consists of a medium- to coarse grained metamorphic rock known as the Fordham Gneiss (EPA, 2012).

Depth to groundwater at the Site was measured between 5.28 ft-bbg and 10.33 feet below driveway grade (approximately 12.33 ft-bsg to 13.28 ft-bsg). Groundwater flow has been measured to the west-northwest, toward the Gowanus Canal. A well survey is included as Attachment 1 to the Phase II Report (Appendix A of this RIWP)

2.4 Historical Operations

According to our review of the available Sanborn Fire Insurance Maps, the Site was developed sometime prior to 1886 with multiple dwellings and a chemical works. By 1904, the chemical works had become "city laundry" and the multiple dwellings remained. By 1915, "city laundry" had become "domestic steam laundry" and had expanded their commercial footprint, leaving three of four dwellings remaining. A coat and apron supply company also occupied the Site lot in 1915. By 1938, only one dwelling remained and the majority of the lot was utilized as "domestic steam laundry" with the exception of a small carpenter shop abutting the laundry. By 1950, the remaining dwelling abutting the laundry to the east is no longer depicted and the former carpenter space has been replaced with a dwelling. Between 1950 and 1969 the laundry ceased operations and the space is used for unspecified manufacturing and contains a truck loading area; the dwelling abutting the commercial space to the west is still depicted. By 1977, it appears that the entire Site lot is occupied by the current use operator. The Site lot remains unchanged from this time. City directory listings document historic use of the Site as a metal manufacturer from circa 1960 to 2014. The current use is for metal finishing, predominantly through spray booth painting and lacquering operations . Additional listings reviewed include plastics manufacturing, enamel spraying, commercial supermarket and a coffee shop.

2.5 Previous Investigations

Limited Phase II Investigations were completed in 2023 and 2024 by Tenen. The Phase II Environmental Site Investigation Report, inclusive of analytical laboratory reports in their entirety is included as Appendix A. Tabulated analytical results are included in the Phase II Report as Data Tables 1 – 3b. Sample locations and results in exceedance of applicable standards are depicted in the Phase II Report as Figures 3 – 6. A detailed description of both Phase II Investigations, findings and conclusions, are summarized in the following sections. Based on the previous investigation conducted at the Site, the primary contaminants of concern for the Site are cVOCs.

2.5.1 Limited Phase II Environmental Site Investigations, Tenen Environmental, LLC, May 2023 and January 2024.

The combined investigations consisted of the collection of 26 soil samples from 24 soil borings, eleven groundwater samples from ten groundwater monitoring wells, five soil vapor samples from five temporary soil vapor points, one indoor air sample and one ambient air sample.

The 2023 Phase II Investigation consisted of the advancement of 13 soil borings, the collection of 13 soil samples, the installation of seven temporary groundwater monitoring wells, the collection of seven groundwater samples, the installation of five temporary sub-slab soil vapor points, the collection of five sub-slab soil vapor samples, the collection of one indoor air sample and the collection of one ambient air sample. In addition, two wood samples and four concrete samples were collected from the onsite building.

Based on the results of the 2023 Investigation, Tenen returned to the Site in January 2024 to delineate cVOC impacts detected in soil during and to assess groundwater conditions in areas of the Site not previously investigated. The January 2024 sampling event consisted of the advancement of 13 soil borings, the collection and analysis of 13 soil samples, the installation of three temporary groundwater monitoring wells, and the collection of four groundwater samples from previously (TW-3) and newly-installed (TW-8, 9 and 10) wells.

2.5.1.1 Soil Sampling Scope and Methodology

In May 2023, 13 soil borings (SB-1 through SB-13) were advanced onsite to approximately three feet below the groundwater interface. Soil borings SB-1 and SB-2 were advanced within the driveway; soil borings SB-3 – SB-12 were advanced within the onsite buildings' basement and SB-13 was advanced within the first floor, slab-on-grade portion of the Site building. One soil sample was collected from each boring from the area of highest suspected contamination based on photo-ionization detector (PID) readings and field observations. If no contamination was observed, soil samples were collected from varying two-foot intervals in order to provide a profile of the subsurface across the Site. All soil samples collected during this event were analyzed for VOCs, semi-volatile organic compounds (SVOCs), metals, pesticides and polychlorinated biphenyls (PCBs).

In January 2024, an additional 13 soil borings were advanced to delineate the VOCs detected in borings SB-4 and SB-8. One sample was collected from each boring from the area of highest suspected contamination based on PID readings and field observations. If no contamination was observed, soil samples were collected from a two-foot interval with the highest concentration detected in May 2023. Soil samples collected during this event were analyzed for VOCs only.

Boring locations are shown on Figure 3 of the Phase II Report. Soil borings SB-3 though SB-13 were advanced utilizing a portable 420M drill rig; soil borings SB-1, SB-2 and all borings installed during the January 2024 mobilization were advanced utilizing a limited access direct push track-mounted Geoprobe®. The soil from all borings was screened with a PID from grade to termination depth. Sample PID readings ranged from 0.0 ppm to a maximum of 2.1 ppm. All soil samples were collected using dedicated acetate liners. Soil boring logs are included in Attachment 3 of the Phase II Report.

No evidence of petroleum or grossly-contaminated material was observed. Following the completion of the soil sampling, boreholes were backfilled with clean soil cuttings/clean sand except for those converted to temporary monitoring wells (see groundwater subsection below).

Soil samples were containerized in accordance with EPA analytical protocols. Each sample was labeled, sealed, and placed in a chilled cooler for shipment to the laboratory. A record of each sample, including notation of any odors, color, and sample matrix, was kept in the sampler's field log book. A chain of custody was maintained throughout the field sampling, transport of samples to the laboratory and lab analysis. Trip blanks for VOCs were included with all shipments as a quality assurance/quality control (QA/QC) measure.

2.5.1.2 Groundwater Sampling Scope and Methodology

In May 2023, seven soil borings (SB-1 through SB-7) were converted to 1-inch diameter permanent monitoring wells (TW-1 through TW-7) within the onsite buildings' basement and driveway to approximately three feet below the groundwater interface. The termination depth of wells TW-1 and TW-2 was 15 feet below driveway grade (approximately 17 to 19 ft-bsg, due to varying driveway elevations) and the termination depth of wells TW-3 through 7 was 12 ft-bbg (approximately 20 ft-bsg). Wells TW-1 and TW-2 were constructed with 13 feet of 0.020-inch slot screen; wells TW-3 through TW-7 were constructed with 10 feet of 0.020-inch slot screen; All wells were finished with solid schedule 40 PVC riser to grade. The annular space around the wells was filled with No. 2 Morie quartz sand to approximately a depth of two-feet above the top of the well screen, followed by a one or two foot bentonite seal, clean soil cuttings, flush mount road box and concrete collar.

All groundwater samples collected during this event were analyzed for VOCs, SVOCs, total and dissolved metals, pesticides and PCBs.

In January 2024, an additional three permanent groundwater monitoring wells (TW-8 through TW-10) were installed and sampled along with previously installed TW-3. Wells TW-8 through TW-10 were installed in the vicinity of soil borings SB-8, 9 and 10. The termination depth of wells TW-8 through TW-10 was approximately 10 ft-bbg (approximately 18 ft-bsg). Wells TW-8 through TW-10 were constructed of 2-

inch diameter 40 schedule PVC with seven feet of 0.020-inch slot screen and solid PVC riser to grade. The annular space around the wells was filled with No. 2 Morie quartz sand to a depth of two-feet above the top of the well screen, followed by a one or two foot bentonite seal, clean soil cuttings, flush mount road box and concrete collar. Well construction logs are included with the boring logs in Attachment 3 of the Phase II Report. The soil from well locations TW-8 through TW-10 was screened with a PID from grade to termination depth and soil was collected for analysis only if impacts were suspected/observed. One soil sample was collected from TW-10 (3-5) and analyzed for VOCs.

Monitoring well locations are shown on Figure 3 of the Phase II Report. Groundwater was measured at depths of between 5.28 ft-bbg and 10.33 feet below driveway grade (approximately 12.33 ft-bsg to 13.28 ft-bsg). A PID was used to measure head-space readings in the wells prior to sampling. PID readings were non-detect; however, a petroleum-like odor and slight sheen was noted in purge water from well TW-6. Field instrumentation was employed to measure water temperature, pH, turbidity, and dissolved oxygen in all wells prior to sampling. Sampling was completed using a low-flow peristaltic pump. No visual evidence of petroleum impacts was observed in the purged groundwater.

Groundwater samples collected during this event were analyzed for VOCs, only, with exception to TW-8 where in-situ chemical oxidation (ISCO) parameters were also analyzed. ISCO parameters analyzed include chloride and sulfate, dissolved gases, nitrite/nitrate, total alkalinity, sulfide, total organic carbon (TOC), chemical oxidant demand (COD), and ferrous/ferric/total iron.

Groundwater samples were containerized in accordance with EPA analytical protocols. Each sample was labeled, sealed, and placed in a chilled cooler for shipment to the laboratory. A record of each sample, including notation of any odors, color, and sample matrix, was kept in the sampler's field log book. A chain of custody was maintained throughout the field sampling, transport of samples to the laboratory and lab analysis. Trip blanks for VOC analysis and field blanks for full-scan analysis (May 2023 event) were submitted along with the groundwater samples as QA/QC measures.

2.5.1.3 Sub-Slab Soil Vapor and Indoor Air Sampling Scope and Methodology

On May 21, 2023, Tenen installed five temporary sub-slab soil vapor points (SV-1 through SV-5) across the Site basement. Soil vapor, indoor air and ambient air samples were collected the following day, on May 22, 2023. At each soil vapor sampling location, a ½-inch diameter, two-inch long perforated soil vapor sampling probe (AMS gas vapor probe tip) was installed directly below the basement slab. Each temporary soil vapor sampling probe was installed using a hand-held core drill. The soil vapor sampling probe was connected to dedicated tubing that was extended to grade. A plastic chamber was sealed above the borehole. The sampling tube was pushed through the top of the sealed chamber. In accordance with the NYSDOH Soil Vapor Guidance protocols, a tracer gas (helium), was used to verify the integrity of the soil vapor probe and surrounding seal. The atmosphere inside the chamber was enriched with the tracer gas. A portable helium monitor was attached to the sampling tube to measure a vapor sample from the probe for the presence of high concentrations (>10%) of the tracer gas.

Soil vapor was purged from the bore hole by attaching the surface end of the tubing to an air valve and then to a vacuum pump. The vacuum pump removed one to three volumes of air (volume of the sample probe and tube) prior to sample collection. The flow rate for both purging and sample collection did not exceed 0.2 liters per minute.

Each soil vapor sample was screened for organic vapors using a PID. Pre-sample PID readings from the soil vapor points were between 1.8 (SV-2) and 83.2 ppm (SV-1). Field notes were maintained summarizing sample identification, date and time of sample collection, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after samples were collected and chain of custody protocols. Soil vapor sampling logs are included as Attachment 2 of the Phase II Report.

One indoor air sample and one ambient air sample were collected from breathing height (3-5 feet above the surface) during soil vapor sampling. All samples were collected in 6-liter Summa canisters using eight-hour regulators and analyzed for VOCs using EPA Method TO-15.

2.5.1.4 Analytical Results

All samples were sent under chain-of-custody documentation to Alpha Analytical, Inc. (Alpha). Alpha is certified by the NYSDOH Environmental Laboratory Approval Program (ELAP) as LABIDs 11148 and 11627. Laboratory deliverables are included in Appendix A.

2.5.1.4.1 Soil

All soil sample results were compared to the NYSDEC Unrestricted Use (UU), Protection of Groundwater (PGW) and Restricted Commercial Use (RCU) Soil Cleanup Objectives (SCOs) as listed in 6 NYCRR Part 375-6.8(a) and 6 NYCRR Part 375-6.8(b), respectively, and the October 21, 2010 NYSDEC DEC Policy CP-51. Tabulated results of all soil sample analyses are included in Tables 2a and 2b of the Phase II Report, included as Appendix A. Soil analytical results are summarized below.

PCE was detected in exceedance of its UU and PGW SCO of 1.3 micrograms per kilogram (mg/kg or ppm) in five soil samples, collected between 1-3 ft-bbg and 3-5 ft-bbg (approximately 9-11 ft-bsg and 11-13 ft-bsg). Additionally, cis-1,2-DCE and vinyl chloride, breakdown products of PCE, were each detected in one soil sample (TW-10) collected from 3-5 ft-bbg (approximately 11-13 ft-bsg), exceeding their UU and PGW SCOs of 0.25 ppm and 0.02 ppm, respectively. PCE was detected at a max. concentration of 47 ppm (SB-4W1 (3-5)); cis-1,2-DCE was detected at a concentration of 2.5 ppm and vinyl chloride was detected at a concentration of 0.3 ppm. In general, the highest concentrations of cVOCs in soil were detected in the northern portion of the Site.

One SVOC, the PAH benzo(a)pyrene, was detected in one soil sample (SB-2) collected from 3-5 ft-below driveway grade (approximately 5-7 ft-bsg) at a concentration exceeding its RCU SCO of 1.0 ppm. Benzo(a)pyrene was detected at a concentration of 3.2 ppm. No other SVOCs were detected in exceedance of RCU SCOs in any soil samples.

One metal, arsenic, was detected in one soil sample (SB-10) collected from 2-4 ft-bbg (approximately 10-12 ft-bsg) at a concentration exceeding the RCU SCO of 16.0 ppm. Arsenic was detected at a concentration of 39.2 ppm. No other metals were detected in exceedance of RCU SCOs in any soil samples.

VOCs, pesticides and PCBs were not detected in exceedance of RCU SCOs in any soil samples.

2.5.1.4.2 Groundwater

The groundwater results were compared to the NYSDEC TOGS 1.1.1 AWQS and Class GA Standards. Groundwater standard exceedances are shown on Figure 6 of the Phase II Report. Tabulated results of all groundwater sample analyses are included in Tables 3a and 3b of the Phase II Report, included as Appendix A. Groundwater analytical results are summarized below.

PCE and its breakdown products, TCE, cis-1,2-DCE and vinyl chloride were detected in one or more groundwater samples in exceedance of their respective AWQS. PCE was detected in ten groundwater samples exceeding the AWQS of 5.0 micrograms per liter (ug/L or ppb) [max. 320 ppb in well TW-3]; TCE was detected in three groundwater samples exceeding the AWQS of 5.0 ppb [max. 15.0 ppb in well TW-3]; cis-1,2-DCE was detected in four groundwater samples exceeding the AWQS of 5.0 ppb [max. 39.0 ppb in well TW-10]; and, vinyl chloride was detected in one groundwater sample exceeding the AWQS of 2.0 ppb [concentration of 2.2 ppb in well TW-10]. In general, the highest concentrations of cVOCs in groundwater were detected in the eastern portion of the Site. We note that the highest concentration of PCE was detected in well TW-3,

installed in May 2023 and resampled in January 2024. The January 2024 resampling of TW-3 resulted in a lower concentration of PCE at 150 ppb. The highest concentration of PCE detected in wells sampled in January was 200 ppb (TW-9).

One petroleum-related VOC, 1,2,4,5-tetramethylbenzene, was detected in exceedance of its AWQS in 5.0 ppb in one groundwater sample collected from well TW-6 in the northwestern portion of the Site. 1,2,4,5-tetramethylbenzene was detected at a concentration of 15.0 ppb.

A variety of SVOCs, specifically PAHs, were detected in slight exceedance of their respective Class GA Standards in groundwater samples across the Site, including benzo(a)anthracene [max. 0.34 ppb], benzo(b)fluoranthene [max. 0.38 ppb], benzo(k)fluoranthene [max. 0.14 ppb], chrysene [max. 0.31 ppb], and indeno(1,2,3-cd)pyrene [max. 0.19 ppb]. All of the aforementioned analytes have an AWQS of 0.002 ppb and all of the aforementioned max concentrations were detected in one sample collected from well TW-2. No other SVOCs were detected in exceedance of the AWQS in any groundwater samples.

A variety of metals were detected in exceedance of the AWQS in unfiltered groundwater samples across the Site. Arsenic [max. 31.37 ppb in TW-4, with an AWQS of 25.0 ppb], iron [max. 4,380 ppb in TW-3, with an AWQS of 300 ppb], lead [concentration of 81.82 ppb in TW-4, with an AWQS of 25.0 ppb], manganese [max. 926.9 ppb in TW-6, with an AWQS of 300 ppb], selenium [concentration of 10.1 ppb in TW-5, with an AWQS of 10 ppb], and sodium [max. 70,900 ppb in TW-3, with an AWQS of 20,000 ppb] were each detected in exceedance of the AWQS in all one or more groundwater samples at the Site. Of these, only the naturally-occurring earth metals manganese and sodium were detected in exceedance of the AWQS in filtered groundwater samples across the Site. Filtered manganese was detected at a max. concentration of 1,235 ppb in TW-6, with an AWQS of 300 ppb and sodium was detected at a max. concentration of 89,600 ppb in TW-3, with an AWQS of 20,000 ppb. No other metals were detected in exceedance of the AWQS in any unfiltered or filtered groundwater samples.

Pesticides and PCBs were not detected above the AWQS in any groundwater samples.

2.5.1.4.3 Soil Vapor, Indoor Air and Ambient Air

Soil vapor results along with indoor air were compared to the NYSDOH Decision Matrices, as outlined in the NYSDOH Soil Vapor Guidance. Tabulated results of complete sample analyses are included in Table 1 of the Phase II Report, included as Appendix A. We note that PCE was detected above the 300 ug/m3 immediate action level. Soil vapor, indoor and ambient air analytical results are summarized below.

A variety of chlorinated cVOCs were detected in sub-slab soil vapor across the Site, including PCE [max. 16,100 micrograms per cubic meter (ug/m3) in SV-2], TCE [max. 537 ug/m3 in SV-2], cis-cis-1,2-DCE [max. 377 ug/m3 in SV-1], methylene chloride [max. 23 ug/m3 in SV-5], and chloroform [max. 752 ug/m3 in SV-2]. In general, the highest concentrations of cVOCs were detected in the soil vapor sample collected from the southern portion of the Site basement (sample SV-2).

A variety of cVOCs were detected in the indoor air sample collected from the Site basement, including PCE [concentration of 1,270 ug/m3], TCE [concentration of 4.82 ug/m3], cis-1,2-DCE [concentration of 0.349 ug/m3], methylene chloride [concentration of 21.4 ug/m3], and carbon tetrachloride [concentration of 0.459 ug/m3]. Of these, PCE and TCE were detected in the indoor air sample in exceedance of the NYSDOH Air Guideline Values (AGVs) of 30 ug/m3 and 2 ug/m3, respectively.

Co-located sub-slab soil vapor and indoor air samples were not collected as part of the May 2023 Phase II Investigation. However, based on a comparison of cVOC concentrations in sub-slab soil

vapor and indoor air to the applicable NYSDOH Decision Matrices (Matrix B for PCE and methylene chloride, and Matrix A for TCE, cis-1,2-DCE, and carbon tetrachloride), mitigation would be required for PCE, TCE, cis-1,2-DCE and methylene chloride.

A variety of petroleum-related VOCs were detected at low concentrations in sub-slab soil vapor and indoor air across the Site, including benzene [concentration of 0.68 ug/m3 in indoor air], toluene [max. 32.3 ug/m3 in sub-slab soil vapor and concentration of 8.55 ug/m3 in indoor air], ethylbenzene [concentration of 1.55 ug/m3 in indoor air], p/m-xylene [concentration of 22.5 ug/m3 in sub-slab soil vapor and 5.34 ug/m3 in indoor air], o-xylene [concentration of 1.52 ug/m3 in indoor air], 1,2,4-trimethylbenzene [concentration of 1.62 ug/m3 in indoor air], and 4-methyl-2-pentanone [concentration of 12.5 ug/m3 in indoor air]. None of these compounds require mitigation based on NYSDOH Decision Matrices D, E and F.

3.0 REMEDIAL INVESTIGATION

The Remedial Investigation (RI) proposed for the Site includes sampling of soil, groundwater, and soil vapor. The objectives of the RI *are to define the nature and extent of contamination in all media on- and off-site, both vertically and horizontally*; and to identify contaminant source areas, produce data of sufficient quantity and quality[1] to complete a Qualitative Human Health Exposure Assessment (QHHEA), to support the necessity for and the proposed extent of remediation, and to support the evaluation of proposed alternatives. Category B deliverables will be prepared by the lab for all data generated in support of this RI and data usability summary reports (DUSRs) will be prepared by an independent third party validator for all data generated.

This RIWP was developed to meet the following Site-specific objectives:

- Delineation of the areal and vertical extent of the contamination at, and emanating from all media at the Site and the nature of that contamination;
- Characterization of the surface and subsurface characteristics of the Site, including topography, surface drainage, ecological resources, stratigraphy, depth to groundwater, and any aquifers that have been impacted or have the potential to be impacted;
- Identification of the sources of contamination, the migration pathways and actual or potential receptors of contaminants;
- Evaluation of actual and potential threats to public health and the environment; and,
- Production of data of sufficient quantity and quality to support the necessity for, and the proposed extent of, remediation and to support the evaluation of proposed alternatives.

3.1 Scope of Remedial Investigation

The scoping process, for the purpose of identifying and defining the RI tasks described below, included the following:

- Review of current and historical Site reports and data;
- Review of results from previous environmental assessments, work plans, and reports; and
- Evaluation of DER-10 requirements and relevant State and Federal guidance documents.

The RI will begin following completion of the required 30-day public comment period and after NYSDEC approval of this RIWP. The RI will include advancement of 22 soil borings across the Site and offsite, collection of 66 soil samples, installation of 18 permanent on- and offsite groundwater monitoring wells, collection of 18 groundwater samples, installation of ten temporary soil vapor points, collection of ten soil vapor samples, and collection of one outdoor ambient air sample. The type, location, and rationale for each exploration are detailed in the sections below and in summary table included in Section 3.6.

Installation of soil borings, groundwater monitoring wells, and soil vapor points will be completed in accordance with the sections below and the standard procedures included in the Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP), included as Appendix B and C, respectively. Following the collection of this data, review and evaluation will be performed in order to determine if additional investigation is needed.

Proposed RI sample locations are shown on Figure 3. A summary table of proposed samples and sampling

[1] DUSRs will be prepared for all data collected as part of the Phase II Investigation and all data collected under the regulation of the BCP.

rationale is included in Section 3.6 of this Work Plan.

3.2 Soil Sampling

A subsurface investigation will be performed to further characterize the nature and extent of contamination onsite.

The following scope of work will be implemented:

- Advance 22 soil borings to the first clay or silt confining layer reached below the groundwater interface. 15 soil borings will be advanced across the Site, and seven soil borings will be advanced offsite in the sidewalks of 12th Street.
- Collect a minimum of 66 soil samples: three from each soil boring. Soil samples will be collected from grade to two ft-bg, from the two foot interval directly above the groundwater interface, and from the top of the first clay or silt confining layer encountered below the groundwater interface in each boring. Additional samples will be collected if photoionization detector (PID), visual, or olfactory evidence of contamination is noted in the soil column.
- Analyze all soil samples collected for VOCs, SVOCs, pesticides, herbicides, PCBs, Target Analyte List (TAL) metals, total cyanide, trivalent/hexavalent chromium, 1,4-dioxane, and perfluoroalkyl acids (PFAS).

3.2.1 Soil Sampling Methodology

A total of 22 soil borings will be advanced as part of this RI; proposed soil sample locations are shown in Figure 3. Boring locations may be moved or added based on access. Prior to modifications being made with regard to the above-described placement, coordination with NYSDEC will take place.

The soil borings will be installed using a direct-push track-mounted Geoprobe® unit. Subsurface soil samples will be collected from five-foot macrocores fitted with dedicated acetate liners. Soil borings will be advanced to the first confining clay or silt layer detected below the groundwater interface. 15 soil borings will be advanced across the Site, and seven soil borings will be advanced offsite in the sidewalks of 12th Street. At each location, the liners for each interval will be opened and the soil screened for VOCs using a 10.6 electron-volt (EV) PID. Screening of soil will be accomplished by placing a small amount of soil in a Ziploc bag and immediately closing the bag. The bag will be hand-shaken for 10-15 seconds to allow volatilization of contaminants and the PID inserted into the bag into the headspace over the soil. The PID response will be measured within 2-3 seconds and recorded on the boring log. The soil retrieved from each sampler will be described by field staff on boring logs using the Unified Soil Classification System. All observations regarding potential contamination such as odors, staining, etc. will be documented. Soil will be screened from grade to the terminal depth of each boring. All descriptions and observations will be documented in a field logbook. Soil boring construction logs will be recorded for each soil boring and will be included as an appendix to the RIR.

A minimum of 66 soil samples will be collected as part of this Remedial Investigation, for a minimum of three soil samples per boring. Soil samples will be collected from grade to two ft-bg, from the two foot interval directly above the groundwater interface, and from the top of the first clay or silt confining layer encountered below the groundwater interface in each boring. Additional soil samples will be collected if PID, visual, or olfactory evidence of contamination is noted in the soil column. Samples will be collected from the two foot interval of highest suspected contamination and from the next apparent clean two foot interval.

Soil samples selected for laboratory analysis, as noted above, will be collected directly from the acetate liner, placed in pre-cleaned, pre-preserved laboratory-provided sample bottles, sealed and labeled, and placed in a cooler and chilled to 4°C for transport under chain-of custody procedures. Soil samples will be submitted to a New York State Department of Health (NYSDOH) ELAP-certified laboratory via courier service and analyzed for the respective analyte lists included in 6 NYCRR Part 375 SCOs. Laboratory analytical parameters and methods are outlined below. QA/QC procedures to be followed are described in the QAPP included as Appendix B.

A minimum of three soil samples will be collected from each boring and analyzed for the following analytes on the Part 375 list with a Category B deliverable package:

- Target Compound List (TCL) VOCs by EPA Method 8260;
- SVOCs by EPA Method 8270;
- Pesticides by EPA Method 8081B;
- Herbicides by EPA Method 8151A;
- PCBs by EPA Method 8082A;
- TAL Metals by EPA Methods 6010C/7471B;
- Total Cyanide by EPA Method 9010C;
- Trivalent and Hexavalent Chromium by EPA Method 3060A;
- PFAS by USEPA Method 1633; and,
- 1,4-Dioxane by USEPA Method 8270.

3.3 Groundwater Sampling

The following scope of work is proposed to further characterize groundwater onsite and assess groundwater offsite:

- Eleven permanent onsite monitoring wells will be installed across the Site to assess groundwater conditions onsite and confirm prior investigation results;
- Seven permanent offsite monitoring wells will be installed: three wells will be installed within the northern sidewalk along 12th Street, adjacent to the Site building, to determine if cVOC impacts to groundwater are migrating offsite to the south/southwest. Two additional wells will be installed within the northern sidewalk along 12th Street: one south and one north of the Site building to further assess the fate and transport of potential cVOC impacts in groundwater migrating offsite. Two wells will be installed within the southern sidewalk of 12th Street to determine if cVOC impacts to groundwater are migrating across 12th Street.
- Monitoring wells will be advanced into the groundwater table and installed to straddle the shallow water table (three feet of screen in the vadose zone and seven feet of screen below the groundwater table). All newly installed monitoring wells will be co-located with a soil boring location to ensure that the well is appropriately designed/installed given the location-specific subsurface conditions. Design parameters for the groundwater monitoring wells are subject to change based on conditions encountered in the field, including PID detections in the co-located soil boring at and below the groundwater table, detection of gross contamination (e.g., staining of soil or the presence of LNAPL) in the co-located soil boring, and visual or olfactory evidence of contamination at or below the groundwater table in the co-located soil boring. Based on subsurface field conditions, installation of monitoring wells screened in the intermediate or deep aquifer may also be required.
- Gauge and collect groundwater samples from 18 newly installed wells.
- Analyze all groundwater samples collected for VOCs, SVOCs, pesticides, herbicides, PCBs, TAL metals (total and dissolved), total cyanide, trivalent/hexavalent chromium, 1,4-dioxane, and PFAS.

- Survey newly-installed monitoring wells and collect one round of depth-to-groundwater measurements from all wells; evaluate groundwater elevations and present updated groundwater contours.

3.3.1 Groundwater Monitoring Well Installation

18 newly installed permanent monitoring wells will be installed and sampled as part of this RI. Newly-installed monitoring wells will be installed using a Geoprobe® direct-push rig with auger attachment. Augers will be utilized to install each monitoring well in order to achieve a minimum two-inch annular space around the entire circumference of the new wells. At each location, soil from the co-located soil boring will be screened for VOCs using a PID.

Newly-installed monitoring wells will be constructed of two-inch inner diameter (ID) Schedule 40 PVC casing and riser. It is anticipated that a ten-foot PVC screen (0.020-inch slot) will be installed at the terminal depth at each location straddling the groundwater interface (three feet of screen in the vadose zone and seven feet of screen below the water table). Prior to installing the screen, the borehole will be over-drilled by approximately six-inches and a filter pack of sand will be placed for a minimum of six-inches below the bottom of the screen. The filter pack of sand will be placed in the annular space around the screen of the monitoring wells (minimum 2-inches around the circumference of the screen) and will extend two feet above the screen, but not higher than five feet below ground surface to allow placement of a bentonite seal and protective casing. The filter pack of sand will be inert silica sand that has been manufactured as filter sand and certified as chemically clean by the manufacturer.

The annular area around the well casing above the sand pack will be sealed with bentonite pellets for an interval of two feet. Following placement of the bentonite pellets, water shall be poured into the annular space to hydrate the bentonite. The bentonite seal shall not be placed higher than 2 ft-bg to allow space for placement of the protective casing. The annular space above the bentonite pellets to one ft-bg will be backfilled with a cement-bentonite grout mixture. Drill cuttings will not be used to fill the annular area around the well casing and will be containerized for offsite disposal. Upon completion of the well, a locking well cap will be installed atop the PVC riser and a steel flush-mount road box and concrete apron will be installed at grade.

Groundwater well construction logs will be completed for all of the newly constructed wells, including description of the lithology, top of casing, and screening interval. Boring and well construction logs will be included in the RIR.

Design parameters for the groundwater monitoring wells are subject to change based on conditions encountered in the field, including PID detections in the co-located soil boring at and below the groundwater table, detection of gross contamination (e.g., staining of soil or the presence of LNAPL) in the co-located soil boring, and visual or olfactory evidence of contamination at or below the groundwater table in the co-located soil boring. Based on subsurface field conditions, installation of monitoring wells screened in the intermediate or deep aquifer may also be required to fully delineate the extent of vertical contamination in groundwater.

Newly installed wells will be developed at least one week following installation to provide sufficient time for the bentonite seal to cure. Wells will be developed after the grout seal has sufficiently cured to remove water which may have been introduced during the drilling process and to ensure the collection of representative groundwater samples and water level measurements. Wells will be developed by pumping using a peristaltic pump and dedicated high-density polyethylene (HDPE) tubing. The wells will be developed until at least three well volumes have been evacuated and the monitoring well reaches equilibrium (specific capacity) and turbidity of the purge water is measured to 50 Nephelometric Turbidity Units (NTU) or less.

All development and purge water generated during installation and sampling of monitoring wells will be containerized in 55-gallon drums and staged onsite pending laboratory analytical results, which will determine the appropriate handling and disposal of generated fluids. All wells will be surveyed to a common datum.

3.3.2 Groundwater Monitoring Well Sampling

A peristaltic pump will be utilized to purge and collect all groundwater samples in support of the RI. All sampling equipment will be decontaminated prior to use. Prior to sampling, water levels will be measured using an electronic product-water level indicator. Sample collection will be accomplished by using low-flow procedures. Samples will not be collected until pH, temperature, specific conductance, dissolved oxygen, redox potential, and depth to water measurements stabilize and the turbidity reading is 50 NTU or less, or stabilizes above 50 NTU. All efforts will be made to purge monitoring wells until a turbidity reading equal to or less than 50 NTU is achieved for sampling, as groundwater samples collected with elevated NTU may be considered biased high due to potential for entrained sediment in the sample. Stability is considered to be achieved when three consecutive readings are within the following limits:

- Turbidity: 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized;
- Dissolved Oxygen : 10% for values greater than 0.5 mg/L, if three Dissolved Oxygen values are less than 0,5 mg/L, consider the values as stabilized;
- Specific Conductance: 3%;
- Temperature: 3%;
- pH: ±0.1 unit; and,
- Oxidation/Reduction Potential: ±10 millivolts

Groundwater samples will be collected using low-flow techniques in accordance with EPA Region 1 Low-Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. (EQASOP-GW4, dated July 30, 1996, Revised: September 19, 2017). All groundwater samples will be collected directly from dedicated HDPE tubing and placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to the designated laboratory for analysis. Groundwater samples from newly installed wells will be collected at least one week after development and analyzed for the following analytes on the Part 375 list and emerging contaminants with a Category B deliverable package:

- TCL VOCs by EPA Method 8260C;
- TCL SVOCs by EPA Method 8270D;
- Pesticides by EPA Method 8081B;
- Herbicides by EPA Method 8151A;
- PCBs by EPA Method 8082A;
- Total and Dissolved TAL Metals by EPA Method 6010C/7471B;
- Total and Dissolved Cyanide by EPA Method 9010C; and
- Total and Dissolved Trivalent and Hexavalent Chromium by EPA Method 3060A;
- 1,4-Dioxane by EPA Method 8270D-SIM Modified; and
- PFAS by EPA Method 1633.

Field methods can impact the analysis of PFAS. PFAS samples will be collected in accordance with the current NYSDEC guidance, *Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs*, dated April 2023 (PFAS Guidelines).

3.4 Soil Vapor and Ambient Air Sampling

The following scope of work is proposed to determine soil vapor conditions on- and offsite.

The following scope of work will be implemented:

- Install ten soil vapor points to a depth of six inches above the groundwater table (approximately five to ten ft-bg) to assess soil vapor conditions on- and offsite. Two soil vapor samples will be collected from the exterior portion of the Site; four soil vapor samples will be collected from the northern sidewalk of 12th Street; two soil vapor samples will be collected from the southern sidewalk of 12th Street; and, two soil vapor samples will be collected from the offsite property adjoining the Site to the west (currently utilized as a surface parking lot);
- One outdoor ambient air sample will be collected for each soil vapor sampling event; and,
- Analyze soil vapor and ambient air samples for EPA Method TO-15 VOCs.

3.4.1 Soil Vapor Sampling Methodology

A total of ten soil vapor samples and one outdoor ambient air sample will be collected as part of this RI. Samples will be collected in accordance with the NYSDOH Soil Vapor Guidance.

A Geoprobe® direct push machine will be used to install the soil vapor sampling probes. At each soil vapor sampling location, access to the subsurface soil will be gained by drilling through the top surface material (concrete or asphalt) using a drill bit. Upon penetration through the surface material, a disposable sampling probe consisting of a 1.5-inch long hardened point and a 6-inch long perforated vapor intake will be installed to a depth of approximately six inches above the groundwater interface.

At the terminal depth of soil vapor locations, the sample probe will be attached to ¼-inch diameter Teflon® tubing and extended to the surface. The borehole above the sampling probe to grade will be sealed using an inert sealant to prevent ambient air mixing with the soil vapor. Ambient air will be purged from the boring hole by attaching the surface end of the ¼-inch diameter Teflon® tube to an air valve and then to a vacuum pump. The vacuum pump will remove no more than one to three volumes of air (volume of the sample probe and tube) prior to sample collection. The flow rate for both purging and sample collection will not exceed 0.2 liters per minute.

The soil vapor samples will be first screened for VOCs using a PID. A tracer gas (helium) will be used in accordance with the NYSDOH protocols to verify the integrity of the soil vapor probe seal. Helium will be used as the tracer gas and a bucket will serve to keep it in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. Although there is an allowable amount of tracer gas that can be detected as per the NYSDOH SVI Guidance, if the tracer sample results show any presence of the tracer gas, the probe seals will be adjusted to prevent infiltration which would result in the generation of inaccurate (likely biased low) results.

A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone and chain of custody.

Soil vapor samples will be collected in laboratory-supplied and batch-certified 6-liter Summa canisters using eight-hour regulators. All samples will be sealed, labeled, and placed in a secure container for delivery to a NYSDOH ELAP-certified analytical laboratory. All soil vapor samples will be analyzed for EPA Method TO-15 VOCs.

3.4.2 Ambient Air Sampling Methodology

All samples will be collected in accordance with the NYSDOH Soil Vapor Guidance. Sample locations may be adjusted based on field observations or conditions.

One outdoor ambient air sample will be collected as part of this RI. The outdoor ambient air sample will be collected from breathing height (three to five feet above the ground surface) from an upgradient sampling location. The sampling flow rate will not exceed 0.2 liters per minute (L/min). Sampling will occur for a duration of eight hours. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

The ambient air sample will be collected in a laboratory-supplied and batch-certified 6-liter Summa canisters using an eight-hour regulator and will be sealed, labeled, and placed in a secure container for delivery to a NYSDOH ELAP-certified analytical laboratory. The sample will be analyzed for EPA Method TO-15 VOCs.

3.5 Quality Assurance / Quality Control (QA/QC)

Samples will be collected in accordance with the Quality Assurance Project Plan (QAPP) included as Appendix B.

Sample analysis will be performed by a NYSDOH ELAP-certified laboratory. The laboratory will report sample results on a 10-day turn-around time. An independent sub-consultant will validate sample results and prepare a Data Usability Summary Report (DUSR).

3.6 Summary Table of Proposed Sampling Locations

As required by Section 3.3(b) 3 of DER-10, below is a table describing all proposed sampling locations and QA/QC samples.

Table 1. Proposed Sampling Locations and Analysis

Groundwater

Sample Location	Media	Sampling Intervals	Analytical Parameters	Sampling Method / Minimum Reporting Levels	Rationale	QA/QC Samples
MW-1 through MW-11	Groundwater	10 ft screen across groundwater interface (3 ft in vadose zone and 7 ft below groundwater table)	Part 375 analytes including total and dissolved metals; 1,4-dioxane; PFAS	EPA 8260C, 8270D, 8270D-SIM Modified, 8081B, 8151A, 7196A, 3050B, 7471B, 9010C/9012B/9014, 3060A/7196 and 1633 / MDL less than Class GA Standards for Part 375 analytes; MDL less than 0.28 ug/L for 1,4-dioxane; MDL less than 2 nanograms per liter (ng/L) for PFAS	Confirm/investigate groundwater conditions onsite. Delineate contaminant plume.	1 duplicate, 1 field blank, and 1 MS/MSD per 20 samples; 1 trip blank per sample delivery group
MW-12 through MW-18					Investigate groundwater conditions offsite to the south/southwest/southeast	

Soil

Sample Location	Media	Sampling Intervals	Analytical Parameters	Sampling Method / Minimum Reporting Levels	Rationale	QA/QC Samples
SB-1 through SB-11, SB-19 to SB-22	Soil	Grade to two ft-bg, two foot interval above the groundwater interface, and the top of the first clay or silt confining layer encountered. Additional samples will be collected from the two foot interval of highest suspected contamination and the next apparent clean two foot interval if PID, visual, or olfactory evidence of contamination is encountered in the soil column.	Part 375 Analytes, PFAS, and 1,4-Dioxane	EPA 1633 / MDL less than 1 ug/kg for PFAS; EPA 8270 / MDL less than 0.1 mg/kg for 1,4-Dioxane; EPA 8260C, 8270D, 8081B, 8082A, 8151A, 7196A, 3050B, 7471B, 9010C/9012B/9014 and 3060A/7196 / MDL less than Unrestricted Use SCOs	Confirm/investigate soil conditions onsite	1 duplicate, 1 field blank, and 1 MS/MSD per 20 samples; 1 trip blank per sample delivery group
SB-12 to SB-18					Investigate soil conditions offsite to the south/southwest/southeast	

Soil Vapor and Outdoor Air

Sample Location	Media	Sampling Intervals	Analytical Parameters	Sampling Method / Minimum Reporting Levels	Rationale	QA/QC Samples
SV-1 and SV-2	Soil Vapor	Six inches above the groundwater interface	TO-15 VOCs	EPA TO-15 / MDL less than 1.00 ug/m3	Assess soil vapor conditions in the exterior portion of the Site at the groundwater interface	1 duplicate per 20 samples
SV-3 through SV-10					Assess soil vapor conditions offsite to the south/southwest/southeast/west	
AA	Ambient Air	Breathing height (3-5 feet above the ground)			Assess ambient air conditions upgradient during soil vapor sample collection	None

Quality Assurance / Quality Control

Sample Location	Media	Sampling Intervals	Analytical Parameters	Rationale
Trip Blanks	QA / QC	--	Part 375 analytes and/or 1,4-dioxane and PFAS, as necessary	Quality assurance and quality control
Soil Duplicate				
Soil Blank				
Soil MS/MSD				
Groundwater Duplicate				
Groundwater Blank				
Groundwater MS/MSD				

MDL – Method Detection Limit
Reporting limits are laboratory- and sampling event-specific. The overall objective is to ensure that the minimum reporting levels are such that they can be used to evaluate potential sources, assess risk from detected compounds, and compare detected concentrations against applicable regulatory levels.

3.7 Qualitative Exposure Assessment

Following receipt of the sample results, a QHHEA will be completed in accordance with Section 3.3(c)4 and Appendix B (NYSDOH guidance for preparing a qualitative human health exposure assessment) of DER-10. The QHHEA will utilize the results of the RI to evaluate and document how people might be exposed to Site-related contaminants, and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the Site. The results of the RI will be used to identify potential human exposure scenarios associated with contaminants in sub-slab soil vapor, indoor air, soil, and groundwater. The results of the QHHEA will be included in the RIR.

3.8 Health and Safety Plan (HASP)

All work at the Site will be completed in accordance with the Health and Safety Plan (HASP) included in Appendix C.

3.9 Air Monitoring

A Site-specific CAMP has been prepared and is included as Appendix D to the RIWP. CAMP will be implemented during all ground-intrusive sampling activities. Real-time air monitoring for VOCs and particulate levels at the perimeter of the exclusion zone or work area will be conducted during all intrusive Site activities and in compliance with the NYSDEC Generic CAMP.

Continuous monitoring will be required for all ground intrusive activities and during demolition of contamination or potentially contaminated structures (if needed). Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings, monitoring wells, and soil vapor points. Fixed air monitoring stations will be set up at the upwind and downwind perimeters of the work zone (two total stations) during the subsurface RI work and will continuously log VOC and particulate levels. The total number of CAMP stations may continue to be revised as onsite conditions necessitate, with consultation and approval from the NYSDEC and the NYSDOH. Each fixed monitoring station will be fully enclosed and equipped with the following:

- A PID equipped with a 10.6 eV lamp capable of calculating 15-minute running average VOC concentrations;
- A TSI DustTrak II or equivalent dust monitor capable of measuring the concentration of airborne respirable particles less than 10 micrometers in size (PM_{10}) and calculating 15-minute running average particulate concentrations; and,
- A Netronix™ Thiamis™ ICU-820 or equivalent Global System for Mobile Communication (GSM)/Global Positioning System (GPS) device capable of recording air monitoring and location data.

Each monitoring station will be capable of sending e-mail or text message alerts to indicate an exceedance of action levels. Additionally, inspections of the monitoring stations will be conducted by onsite field staff on at least an hourly basis. Upon completion of Site activities, all air monitoring data will be available to download via the iEnvironet or Samsara websites. All air monitoring data recorded at fixed monitoring stations will be available for NYSDEC and/or NYSDOH review and will be included in the RIR.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples, the collection of groundwater samples from existing monitoring wells, or the collection of soil vapor samples from existing soil vapor points. Periodic monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location.

Special requirements will be implemented during any ground-intrusive work occurring within twenty feet of potentially exposed individuals or building openings (windows, vents, doors, etc.). If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceeds 1 ppm, monitoring will occur within the occupied structure(s). If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities will be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

Special requirements will also be implemented during all work completed inside an occupied building. Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements will be as stated for special requirements for work within 20 feet of potentially exposed individuals or structures above, except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, exhaust fans or other engineering controls may be used to create negative air pressure within the work area during remedial activities. Additionally, consideration will be given to implementing the planned work during hours (e.g., weekends or evenings) when building occupancy is at a minimum. Details of the Site-Specific CAMP are included in Appendix D.

Daily CAMP reports will be sent to the NYSDOH and NYSDEC Project Manager via email. Daily reports will include a Site figure depicting Work Zones; activities; wind direction, in addition to CAMP monitor readings and CAMP station locations. Any exceedances of CAMP readings, corrective actions taken, and indication of whether the corrective actions reduced readings to below action levels will be communicated to the NYSDEC and the NYSDOH Project Managers as soon as practicable and within 24 hours of the exceedance.

3.10 Investigation-Derived Waste (IDW)

Following the completion of sampling, boreholes will be backfilled with clean cuttings or sand. If grossly contaminated soil cuttings are encountered or if excess soil cuttings are generated, they will be placed in 55-gallon drums. Purge water and other investigation-derived waste (IDW) will be containerized in 55-gallon drums. After the investigation is complete, the drum contents will be characterized for offsite disposal and if cVOC concentrations do not indicate the waste materials need to be disposed of as hazardous waste, a contained-in determination will be requested from NYSDEC. All IDW will be managed in accordance with DER-10, Section 3.3(e).

3.11 Reporting

Daily reports will be sent to the NYSDOH and NYSDEC Project Managers via email by the end of each day following the reporting period and will include:

- An update of progress made during each day of work;
- Locations of work being performed;
- Photographs of work completed each day;
- A summary of work planned for the following day;
- The names and titles of staff performing the onsite RI activities;
- A timeline of daily work activities, including start and end times;
- A summary of any and all complaints with relevant details (names, phone numbers, etc.)

- A summary of CAMP findings, including exceedances;
- A summary of any data collected in association with RI activities;
- An explanation of notable Site conditions; and,
- Any deviations from the approved work plan.

Daily reporting and CAMP will be conducted during ground intrusive activities and soil handling activities. NYSDEC and the NYSDOH will be notified of CAMP results that exceeded action levels, including duration and actions taken in response to any such exceedance. Notifications will be provided to the NYSDEC and the NYSDOH as soon as possible, within a minimum 24 hours from the exceedance event.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC or NYSDOH for emergencies (accidents, spills, etc.), requests for changes to the RIWP, or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Any and all Site notifications, including emergency conditions and changes to the RIWP, will be addressed directly to the NYSDEC PM and the NYSDOH PM via personal communication.

Daily reports will include a description of daily activities keyed to a map for the Site that Identifies work areas. These reports will include a summary of air sampling results, odor and dust problems and corrective actions, and any complaints received from the public. All complaints received will immediately be reported to the NYSDEC PM and the NYSDOH PM.

The NYSDEC assigned project number will appear on all reports.

A RIR will be prepared in accordance with the requirements of DER-10. The report will include details of the sampling, tabulated sample results and an assessment of the data and conclusions. If warranted, recommendations for additional actions will be included.

Soil sample results will be compared to Unrestricted Use, Commercial Use, and Protection of Groundwater SCOs, with PFAS results compared to the proposed Unrestricted Use, Restricted Commercial, and Protection of Groundwater SCOs as presented in NYSDEC's April 2023 PFAS Guidelines. Groundwater sample results will be compared to the Class GA Standards. Soil vapor results will be compared to the ambient air results. The results of all media will be evaluated comprehensively to determine the need for additional investigation and/or remediation.

The report will also include the qualitative exposure assessment, CAMP results, laboratory data packages, DUSR, geologic logs, well construction diagrams and well purging/sampling logs. All data will also be submitted electronically to NYSDEC via the Environmental Information Management System (EIMS) in EqUIS format.

4.0 SCHEDULE

The following project schedule has been developed for the implementation of the RI:

Work Plan Implementation Schedule

Task Number	Task	Estimated Task Duration (business days)	Total Duration (business days)
0	Work Plan Approval	0	0
1	30-Day Public Comment Period	30 (calendar days)	30
2	Mobilization	15	45
3	Soil Boring Installation, Soil Sampling, Monitoring Well Installation, and Soil Vapor Point Installation	15	60
4	Groundwater and Soil Vapor Sampling	5	65
5	Laboratory Analysis	20	85
6	Draft Report and Data Validation	30	115
7	Submittal of RI Report	5	120

5.0 REFERENCES

New York State Department of Environmental Conservation, Division of Environmental Remediation. DER Technical Guidance for Site Investigation and Remediation (DER-10). NYSDEC 2010.

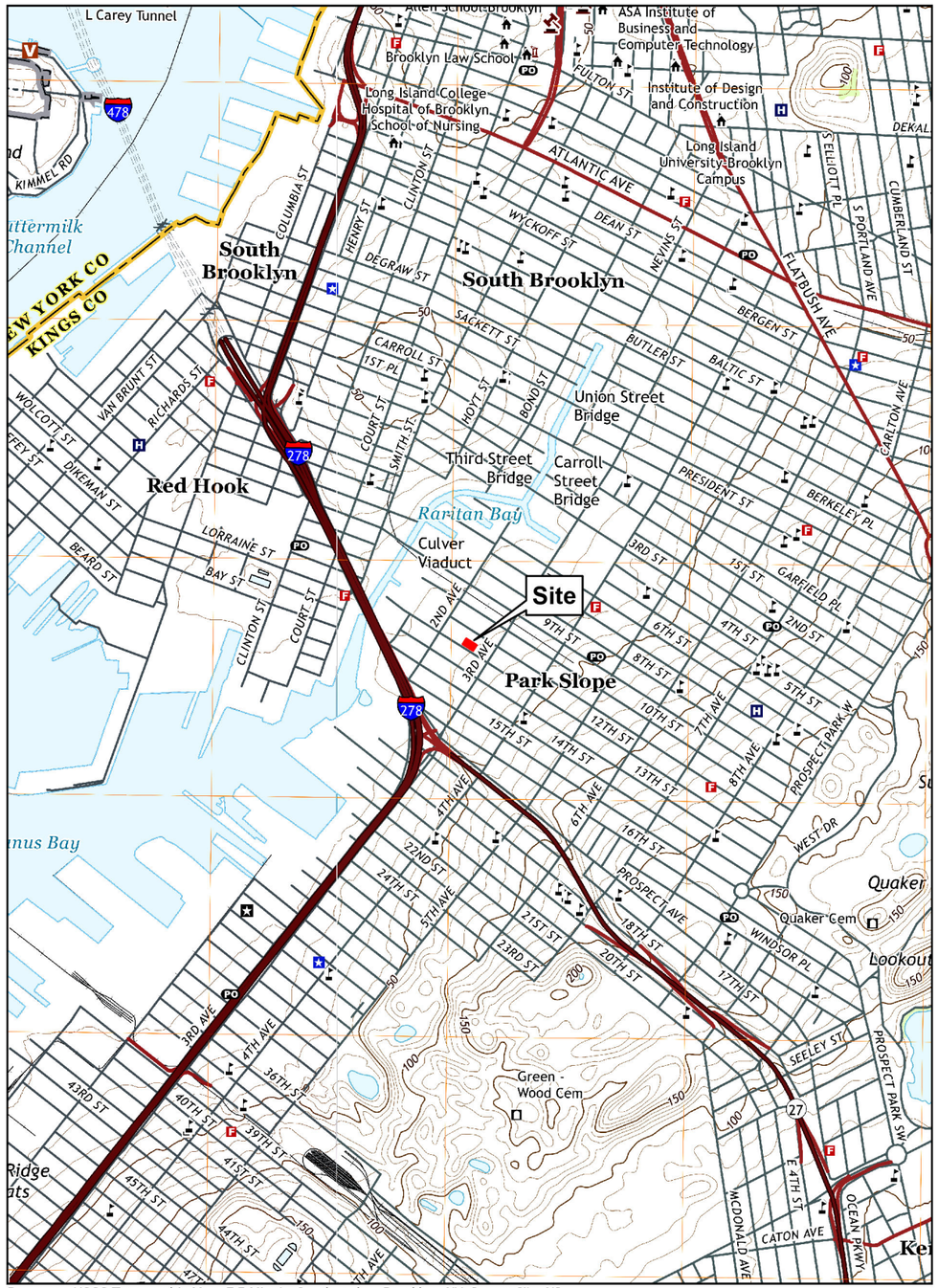
New York State Department of Environmental Conservation DEC Policy. Commissioner's Policy 51 – Soil Cleanup Guidance. October 21, 2010. NYSDEC 2010.

New York State Department of Environmental Conservation. Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs. April 2023. NYSDEC 2023.

New York State Department of Health. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, October 2006 with revisions).

2023/2024 Phase II Environmental Site Investigation Report, 127 12th Street, Brooklyn, NY, Tenen Environmental, LLC, March 12, 2024.

Figures



Basemap: USGS Topographic Map, 7.5 Minute Quadrangles: Brooklyn, NY; Jersey City, NJ

Site Location

http://gis.nyc.gov/taxmap/map.htm

Department of Finance Digital Tax Map

NYC OpenData, State of New Jersey, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

Department of City Planning MapPluto 2025 v2_1

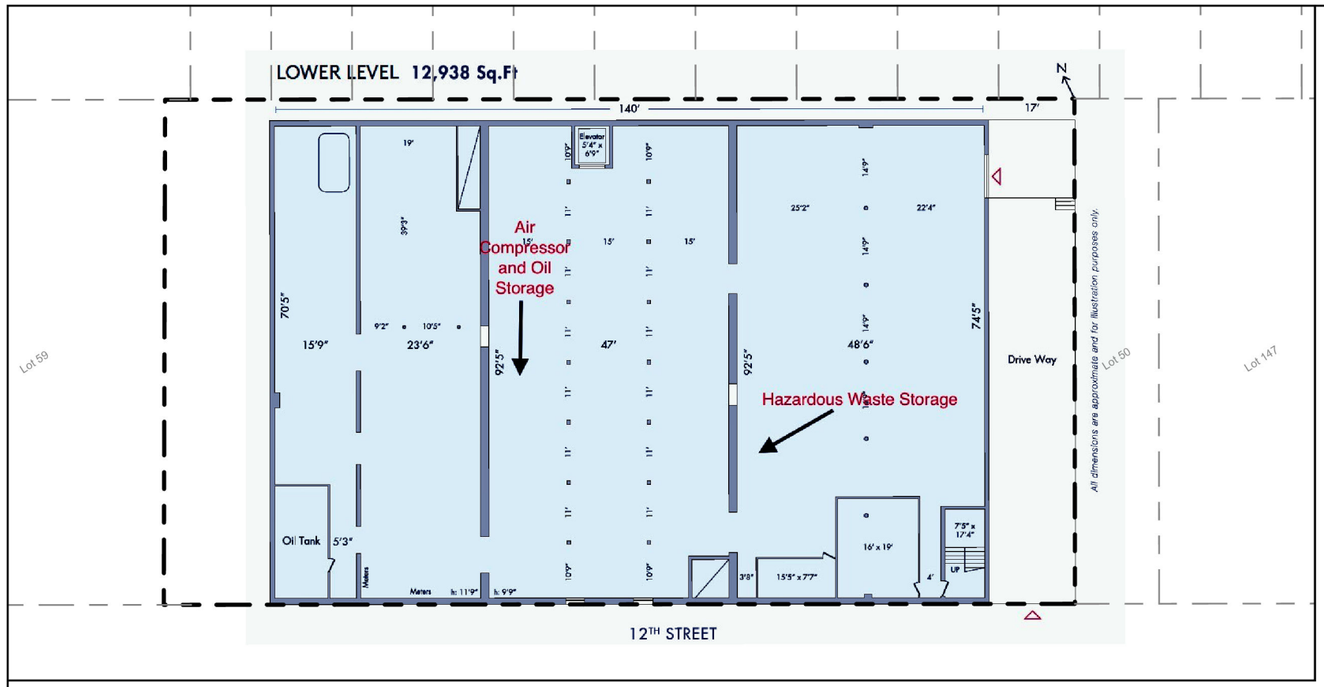
Remedial Investigation Work Plan
127 12th Street
Brooklyn, New York
Block 1020, Lot 52

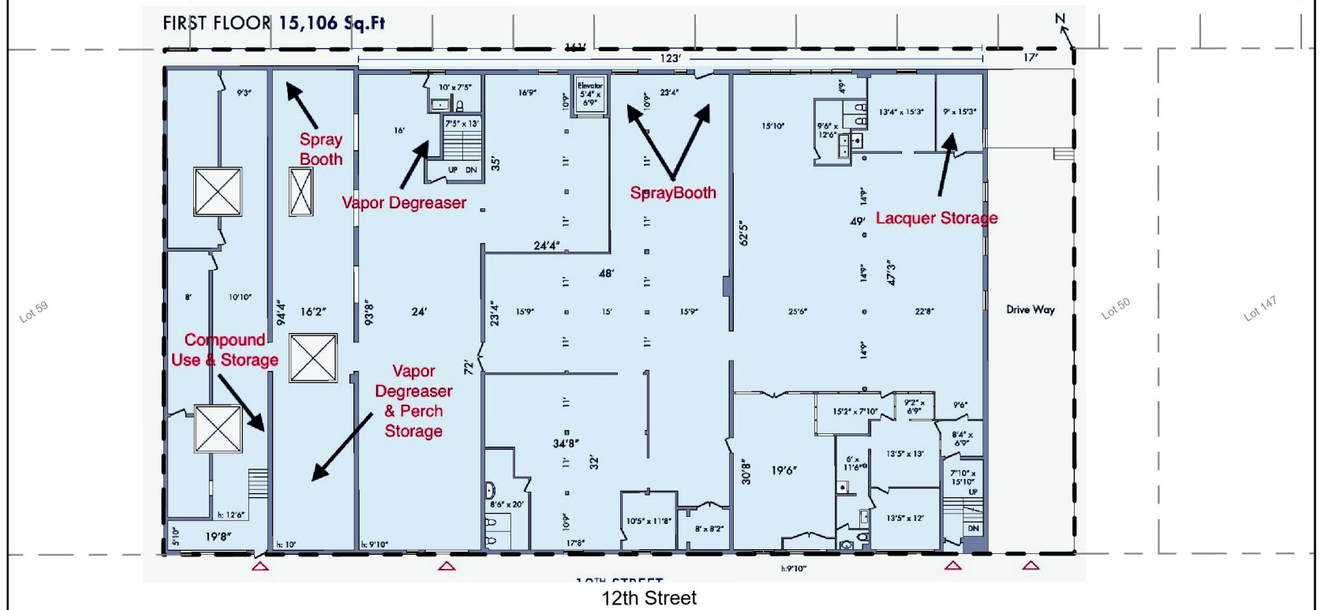
Matthew M. Carroll, PE
1085 Sackett Avenue
Bronx, NY 10461

Drawn By	LM
Checked By	AP
Date	September 2025
Scale	As Noted

Drawing Title: Site Location Map

Drawing No.: Figure 1





Legend

- NYC Tax Lots
- Site Bounday

0 15 30 60 Feet

Reference:
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

Remedial Investigation Work Plan
127 12th Street
Brooklyn, New York
Block 1020, Lot 52

Matthew M. Carroll, PE
1085 Sackett Avenue
Bronx, NY 10461

Drawn By	LM
Checked By	AP
Date	September 2025
Scale	As Noted
Drawing Title	Site Layout
Drawing No.	Figure 2

Legend

- Soil and Groundwater Sample Location
- Soil Sample Location
- Soil Vapor Sample Location

2022/2023 Tenen Phase II Sample Locations

- Soil Sample Location
- Groundwater and Soil Sample Location
- Groundwater Sample Location
- Soil Vapor Sample
- Ambient
- NYC Tax Lots
- Site Bounday
- First Floor Layout

Notes:
Floor Plan shown is the Lower Level Plan
Except where noted as the First Floor Layout.

0 12.5 25 50 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group; Nearmap 9/5/23 Aerial
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

Remedial Investigation Work Plan
127 12th Street
Brooklyn, New York
Block 1020, Lot 52

Matthew M. Carroll, PE
1085 Sackett Avenue
Bronx, NY 10461

Drawn By	Checked By	Date	Scale
LM	AP	September 2025	As Noted

Drawing Title: Proposed Remedial Investigation Sample Locations

Drawing No.: Figure 3

Appendix A
Previous Reports

March 12, 2024

Di Maio Enterprises Inc.
127 12th Street
Brooklyn, NY 11215

Attn: Vito Di Maio

Re: 2023/2024 Phase II Environmental Site Investigation Report
127 12th Street – Brooklyn, NY
Block 1020, Lot 52

Dear Mr. Di Maio,

In May 2023 and January 2024, Tenen Environmental, LLC (Tenen) conducted soil vapor, soil and groundwater sampling at the above referenced property (herein referred to as "Site"). This letter report provides a summary of the work conducted, a discussion of the sampling results and a summary of the findings.

The Site, located at 127 12th Street, Brooklyn, New York (Tax Block 1020, Lot 52), is a rectangular shaped parcel located midblock on the eastern side 12th Street. The Site is bound by 3rd Avenue to the south, 2nd Avenue to the east and 11th Street to the north. The Site is approximately 17,900 square feet (SF) and has approximately 179 feet of frontage along 12th Street.

The Site is currently improved with a two-story masonry building built in 1931. The Site building houses one commercial space with an area of approximately 25,334 SF. The building is currently utilized for metal finishing, predominantly through spray booth painting and lacquering operations and functions consistent with Resource Conservation and Recovery Act (RCRA) requirements. The building footprint comprises approximately 85% of the total Site area with 158 feet of frontage along 12th Street and a depth of 96 feet. The remainder of the Site is paved, with the easterner portion used for parking. Site location and layout are depicted on Figures 1 and 2, respectively. Figure 2 depicts the approximate location of building features associated with prior chlorinated volatile organic compound (cVOC) usage, hazardous waste storage and oil storage.

Based on current Site operations and a history of both Large and Small Quantity Generator designations, a subsurface investigation consisting of soil vapor, soil and groundwater sampling was completed.

Hydrogeology

The subject property is located at an average elevation of approximately 23 feet (ft) above mean sea level (msl) and is relatively flat.

Soils encountered during this investigation included historical fill material extending from basement grade to varying depths up to 6 feet below basement grade (the terminal boring depth). Native material underlying the fill layer was encountered at depths between ~3 to 5 feet below cellar grade with the exception of soil boring locations SB-4 and SB-11, where only fill material was observed. The fill layer included mainly fine to coarse, light to dark brown and gray sand with varying amounts of gravel, silt; and lesser/trace amounts of brick, coal, concrete, glass, and wood. Apparent underlying native material composed mainly of fine to coarse sand, with varying amounts of

clay, silt, and gravel.

Groundwater at the Site was measured between 5.28 and 10.33 feet below basement grade (ft-bbg) and groundwater flow has been measured to the west-southwest, toward the Gowanus Canal. A monitoring well survey is included as Attachment 1.

Sample Collection

The investigation consisted of the collection of 26 soil samples from 24 soil borings, eleven groundwater samples from ten groundwater monitoring wells, five soil vapor samples from five temporary soil vapor points, one indoor air sample and one ambient air sample.

A map depicting sample locations is included as Figure 3. Below is a summary of the sampling methodology for each media collected.

Soil Vapor, Indoor Air and Ambient Air

In May 2023, three sub-slab soil vapor points (SV-1 through SV-5) were installed across the Site. Tenen collected soil vapor, indoor air and ambient air samples on May 22, 2023.

At each soil vapor sampling location, a ½-inch diameter, two-inch long perforated soil vapor sampling probe (AMS gas vapor probe tip) was installed directly below the basement slab. Each temporary soil vapor sampling probe was installed using hand tools.

The soil vapor sampling probe was connected to dedicated tubing that was extended to grade. In accordance with the New York State Department of Health (NYSDOH) October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Soil Vapor Guidance) with February 2024 update protocols, a tracer gas (helium) was used to verify the integrity of the soil vapor probe. A plastic chamber was sealed above the borehole. The sampling tube was pushed through the top of the sealed chamber. The atmosphere inside the chamber was enriched with the tracer gas. A portable helium monitor was attached to the sampling tube to measure a vapor sample from the probe for the presence of high concentrations (>10%) of the tracer gas.

Soil vapor was purged from the boring hole by attaching the surface end of the tubing to an air valve and then to a vacuum pump. The vacuum pump removed one to three volumes of air (volume of the sample probe and tube) prior to sample collection. The flow rate for both purging and sample collection did not exceed 0.2 liters per minute.

The soil vapor sample was first screened for organic vapors using a photo-ionization detector (PID). Pre-sample PID readings from the soil vapor points were between 1.8 and 5.1 parts per million (ppm). Soil vapor samples were collected in 6-liter Summa canisters using eight-hour regulators and analyzed for volatile organic compounds (VOCs) using EPA Method TO-15.

One indoor air sample and one ambient air sample were collected from breathing height (3-5 feet above the surface) in 6-liter Summa canisters using eight-hour regulators and analyzed for VOCs using EPA Method TO-15.

Field notes were maintained summarizing sample identification, date and time of sample collection, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after samples were collected and chain of custody protocols. Soil vapor sampling logs are included as Attachment 2.

Soil

In May 2023, 13 soil borings (SB-1 through SB-13) were advanced onsite to approximately three feet below the groundwater interface. One soil sample was collected from each boring from the area of highest suspected

contamination based on PID readings and field observations. If no contamination was observed, soil samples were collected from a two-foot interval in order to provide a profile through the sampled interval. All soil samples collected in this event were analyzed for VOCs, semi-volatile organic compounds (SVOCs), metals, pesticides and polychlorinated biphenyls (PCBs).

In January 2024, an additional 13 soil borings were advanced to delineate the VOCs detected in the borings SB-4 and SB-8. Samples collected from each boring form the area of highest suspected contamination based on PID readings and field observations. If no contamination was observed, soil samples were collected from a two-foot interval with the highest concentration detected in May 2023. All soil samples collected in this event were analyzed for VOCs.

Boring locations are shown on Figure 3. All soil borings were advanced utilizing a direct push track-mounted Geoprobe®. The soil from all borings was screened with a PID from grade to termination depth. Sample PID readings ranged up to 2.1 ppm. All soil samples were collected using dedicated acetate liners. Soil boring logs are included in Attachment 3.

No evidence of petroleum or grossly-contaminated material was observed. Following the completion of the soil sampling, boreholes were backfilled with clean soil cuttings/clean sand except those converted to monitoring wells as described below.

Soil samples were containerized in accordance with EPA analytical protocols. Each sample was labeled, sealed, and placed in a chilled cooler for shipment to the laboratory. A record of each sample, including notation of any odors, color, and sample matrix, was kept in the sampler's field log book. A chain of custody was maintained throughout the field sampling, transport of samples to the laboratory and lab analysis. Trip blanks for VOCs were included with all shipments as a quality assurance/quality control (QA/QC) measure.

Groundwater

In May 2023, seven temporary monitoring wells (TW-1 through TW-7) were installed approximately three feet below the groundwater interface. All groundwater samples collected in this event were analyzed for VOCs, SVOCs, total and dissolved metals, pesticides and PCBs.

In January 2024, an additional three permanent monitoring wells (TW-8 through TW-10) and one permanent monitoring well at previous location TW-3 were installed. All groundwater samples collected in this event were analyzed for VOCs.

Monitoring well locations are shown on Figure 3. Monitoring well construction logs are included in Attachment 3. Groundwater was measured at depths of approximately 5.28 and 10.33 ft-bbg. A PID was used to measure head-space readings in the wells prior to sampling. PID readings were non-detect; however, a petroleum-like odor and slight sheen was noted in purge water from well TW-6. Field instrumentation was employed to measure water temperature, pH, turbidity, and dissolved oxygen in the sampled wells in order to stabilize parameters before sample collection. Sampling was completed using a low-flow peristaltic pump. No visual evidence of petroleum impacts was observed in the purged groundwater. Groundwater purge and sampling logs are included as Attachment 4.

Groundwater samples were containerized in accordance with EPA analytical protocols. Each sample was labeled, sealed, and placed in a chilled cooler for shipment to the laboratory. A record of each sample, including notation of any odors, color, and sample matrix, was kept in the sampler's field log book. A chain of custody was maintained throughout the field sampling, transport of samples to the laboratory and lab analysis. Trip blanks for VOC analysis and field blanks for full-scan analysis were submitted along with the groundwater samples as QA/QC measures.

Sample Analysis

All samples were sent under chain-of-custody documentation to Alpha Analytical, Inc. (Alpha). Alpha is certified by the NYSDOH Environmental Laboratory Approval Program (ELAP) as LABIDs 11148 and 11627. Data usability summary reports (DUSRs) are currently being prepared for the Phase II data by L.A.B. Validation Corp.

Analytical Results

Soil Vapor and Indoor Air

Soil vapor results along with the indoor air were compared to the NYSDOH Soil Vapor Decision Matrices (Decision Matrices) as outlined in the NYSDOH Soil Vapor Guidance.

Soil vapor results are included in Table 1 and summarized on Figures 4a and 4b. The analytical results are summarized below.

A variety of chlorinated VOCs (cVOCs) were detected in sub-slab soil vapor across the Site, including tetrachloroethene (PCE) [max. 16,100 micrograms per cubic meter (ug/m3)], trichloroethene (TCE) [max. 537 ug/m3], cis-1,2-dichloroethene (cis-1,2-DCE) [max. 377 ug/m3], methylene chloride [concentration of 23 ug/m3], and chloroform [max. 752 ug/m3]. In general, the highest concentrations of cVOCs were detected in the soil vapor sample collected from the southern portion of the Site basement.

A variety of cVOCs were detected in the indoor air sample collected from the Site basement, including PCE [concentration of 1,270 ug/m3], TCE [concentration of 4.82 ug/m3], cis-1,2-DCE [concentration of 0.349 ug/m3], methylene chloride [concentration of 21.4 ug/m3], and carbon tetrachloride [concentration of 0.459 ug/m3]. Of these, PCE and TCE were detected in the indoor air sample in exceedance of the NYSDOH Air Guideline Values (AGVs) of 30 ug/m3 and 2 ug/m3, respectively.

Co-located sub-slab soil vapor and indoor air samples were not collected as part of the May 2023 Due Diligence investigation. However, based on a comparison of cVOC concentrations in sub-slab soil vapor and indoor air to the applicable NYSDOH Decision Matrices (Matrix B for PCE and methylene chloride, and Matrix A for TCE, cis-1,2-DCE, and carbon tetrachloride), mitigation would be required for PCE, TCE, cis-1,2-DCE and methylene chloride.

A variety of petroleum-related VOCs were detected at low concentrations in sub-slab soil vapor and indoor air across the Site, including benzene [concentration of 0.68 ug/m3 in indoor air], toluene [max. 32.3 ug/m3 in sub-slab soil vapor and concentration of 8.55 ug/m3 in indoor air], ethylbenzene [concentration of 1.55 ug/m3 in indoor air], p/m-xylene [concentration of 22.5 ug/m3 in sub-slab soil vapor and 5.34 ug/m3 in indoor air], o-xylene [concentration of 1.52 ug/m3 in indoor air], 1,2,4-trimethylbenzene [concentration of 1.62 ug/m3 in indoor air], and 4-methyl-2-pentanone [concentration of 12.5 ug/m3 in indoor air]. None of these compounds require mitigation based on NYSDOH Decision Matrix D.

Soil

All VOC soil sample results were compared to the NYSDEC Protection of Groundwater Soil Cleanup Objectives (SCOs) and Restricted-Commercial Use SCOs as listed in 6 NYCRR Part 375-6.8(a) and 6 NYCRR Part 375-6.8(b), respectively, and the October 21, 2010 NYSDEC DEC Policy CP-51. All non-VOC soil sample results were compared to the Restricted-Commercial Use SCOs. The Protection of Groundwater SCOs are used as a screening value for potential groundwater impacts and the Restricted-Commercial Use SCOs are consistent with the current and future use of the Site..

Soil sample results are included in Tables 2a through 2d and summarized on Figures 5a and 5b. The analytical results are summarized below.

PCE was detected in exceedance of its Protection of Groundwater SCO of 1.3 micrograms per kilogram (mg/kg or ppm) in five soil samples, collected between 1-3 ft-bg and 3-5 ft-bg. Additionally, cis-1,2-DCE and vinyl

chloride, breakdown products of PCE, were each detected in one soil sample collected from 3-5 ft-bg exceeding their Protection of Groundwater SCO of 0.25 ppm and 0.02 ppm, respectively. PCE was detected at a max. concentration of 47 ppm; cis-1,2-DCE was detected at a concentration of 2.5 ppm; and, vinyl chloride was detected at a concentration of 0.3 ppm. In general, the highest concentrations of cVOCs in soil were detected in the northern portion of the Site.

One SVOC, the polyaromatic hydrocarbon (PAH) benzo(a)pyrene, was detected in one soil sample collected from 3-5 ft-bg at a concentration exceeding the Restricted-Commercial Use SCO of 1 ppm. Benzo(a)pyrene was detected at a concentration of 3.2 ppm. No other SVOCs were detected in exceedance of RCSCOs in any soil samples.

One metal, arsenic, was detected in one soil sample collected from 0-2 ft-bg at a concentration exceeding the Restricted-Commercial SCO of 16 ppm. Arsenic was detected at a concentration of 39 ppm. No other metals were detected in exceedance of RCSCOs in any soil samples.

VOCs, pesticides and PCBs were not detected in exceedance of Restricted-Commercial SCOs in any soil samples.

Groundwater

The groundwater results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Water Quality Standards and Guidance Values (Class GA Standards).

Groundwater sample results are included in Tables 3a through 3d and summarized on Figure 6. The analytical results are summarized below.

PCE and its breakdown products, TCE, cis-1,2-DCE and vinyl chloride were detected in one or more groundwater samples in exceedance of their respective AWQS. PCE was detected in ten groundwater samples exceeding the AWQS of 5 micrograms per liter (ug/L or ppb) [max. 320 ppb]; TCE was detected in three groundwater samples exceeding the AWQS of 5 ppb [max. 15 ppb]; cis-1,2-DCE was detected in four groundwater samples exceeding the AWQS of 5 ppb [max. 39 ppb]; and, vinyl chloride was detected in one groundwater sample exceeding the AWQS of 2 ppb [concentration of 2.2 ppb]. In general, the highest concentrations of cVOCs in groundwater were detected in the eastern portion of the Site. We note that the highest concentration was detected from a temporary well and a permanent well installed at the same location contained PCE at 150 ppb; the highest concentation in a permanent monitoring well was 200 ppb.

One petroleum-related VOC, 1,2,4,5-tetramethylbenzene, was detected in exceedance of its AWQS in 5 ppb in one groundwater sample collected from the northwestern portion of the Site. 1,2,4,5-tetramethylbenzene was detected at a concentration of 15 ppb.

A variety of SVOCs, specifically PAHs, were detected slightly in exceedance of their respective Class GA Standards in groundwater samples across the Site, including benzo(a)anthracene [max. 0.34 ppb], benzo(b)fluoranthene [max. 0.38 ppb], benzo(k)fluoranthene [max. 0.14 ppb], chrysene [max. 0.31 ppb], and indeno(1,2,3-cd)pyrene [max. 0.19 ppb]. All of the aforementioned analytes have an AWQS of 0.002 ppb. No other SVOCs were detected in exceedance of the AWQS in any groundwater samples.

A variety of metals were detected in exceedance of the AWQS in unfiltered groundwater samples across the Site. Arsenic [concentration of 31.37 ppb with an AWQS of 25 ppb], iron [max. 4,380 ppb with an AWQS of 300 ppb], lead [concentration of 81.82 ppb with an AWQS of 25 ppb], manganese [max. 926.9 ppb with an AWQS of 300 ppb], selenium [concentration of 10.1 ppb with an AWQS of 10 ppb], and sodium [max. 70,900 ppb with an AWQS of 20,000 ppb] were each detected in exceedance of the AWQS in all one or more groundwater samples at the Site. Of these, only the naturally-occurring earth metals manganese and sodium were detected in exceedance of the AWQS in filtered groundwater samples across the Site. Filtered manganese was detected at a max. concentration of 1,235 ppb with an AWQS of 300 ppb and sodium was detected at a max. concentration of 89,600 ppb with an AWQS of 20,000 ppb. No other metals were detected in exceedance of the AWQS in any unfiltered or filtered groundwater samples.

Pesticides and PCBs were not detected above the AWQS in any groundwater samples.

Laboratory deliverables for all samples collected as part of both Phase II Investigations are included in Attachment 5.

Summary of Findings

Sub-slab Soil Vapor / Indoor Air:

- Elevated concentrations of cVOCs, specifically PCE and its breakdown products, were detected in sub-slab soil vapor and indoor air samples. The maximum concentration of PCE was 16,100 ug/m3 in sub-slab soil vapor.
- The concentrations of PCE, TCE, cis-1,2-DCE and methylene chloride would result in a "mitigate" outcome when compared to the applicable NYSDOH matrices.
- A variety of petroleum-related VOCs were detected at lower concentrations but would not require mitigation based the applicable NYSDOH matrix.

Soil:

- PCE and its breakdown compounds, cis-1,2-DCE and vinyl chloride, were detected above the Protection of Groundwater SCO (and were detected above the AWQS in Site groundwater samples). The maximum concentration of PCE was 47 ppm.
- One PAH, benzo(a)pyrene, and one metal, arsenic, were detected above the Restricted-Commercial Use SCOs.
- VOCs, pesticides and PCBs were not detected in exceedance of Restricted-Commercial SCOs in any soil samples.

Groundwater:

- PCE and its breakdown products, TCE, cis-1,2-DCE and vinyl chloride were detected in one or more groundwater samples in exceedance of their respective AWQS. The maximum concentration of PCE in a permanent monitoring well was 200 ppb;
- One petroleum-related VOC, 1,2,4,5-tetramethylbenzene, was detected in exceedance of its AWQS in one sample.
- Several PAHs were detected slightly in exceedance of AWQS.
- Only typical earth metals were detected in filtered groundwater samples.

Based on the results of the combined Phase II Investigations, the primary contaminants of concern at the Site are cVOCs, specifically PCE and its breakdown products.

Sincerely,
Tenen Environmental, LLC

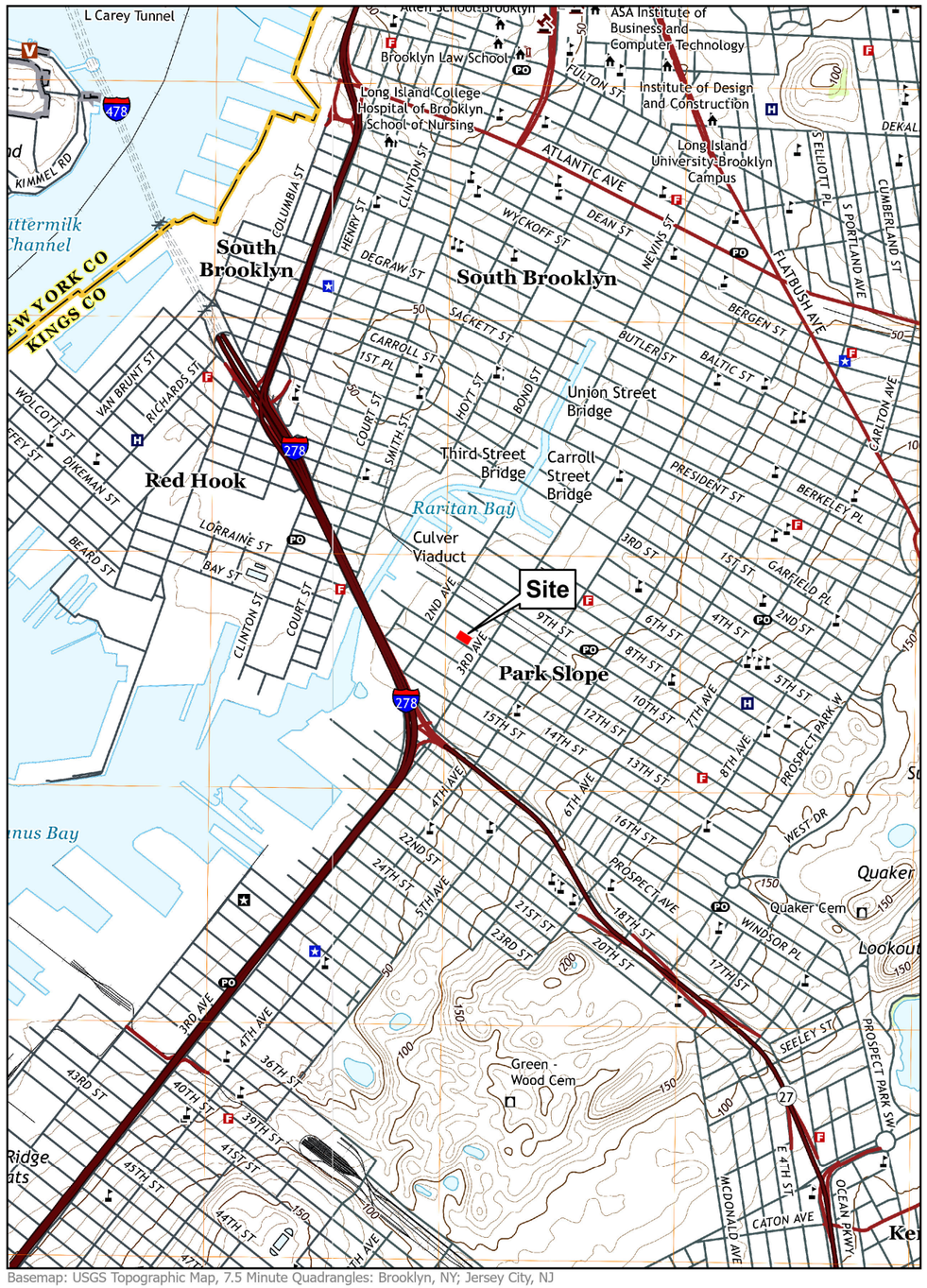
Matthew Carroll, P.E.
Principal / Environmental Engineer

Figure 1 Site Location Map
Figure 2 Site Layout
Figure 3 Sample Location Map
Figure 4a, 4b Sub-Slab Soil Vapor and Indoor Air Analytical Results (Basement and First Floor, respectively)
Figure 5a, 5b Soil Analytical Results (Basement and First Floor, respectively)
Figure 6 VOCs and SVOCs in Groundwater

Table 1 Volatile Organic Compounds in Sub-Slab Soil Vapor, Indoor Air and Ambient Air
Table 2a Volatile Organic Compounds in Soil
Table 2b Semivolatile Organic Compounds in Soil
Table 2c Metals in Soil
Table 2d Pesticides and Polychlorinated Biphenyls in Soil
Table 3a Volatile Organic Compounds in Groundwater
Table 3b Semivolatile Organic Compounds in Groundwater
Table 3c Metals in Groundwater
Table 3d Pesticides and Polychlorinated Biphenyls in Groundwater

Attachment 1 Monitoring Well Survey
Attachment 2 Soil Vapor Sampling Logs
Attachment 3 Soil Boring and Well Construction Logs
Attachment 4 Groundwater Purge and Sampling Logs
Attachment 5 Laboratory Deliverables

Figures



Basemap: USGS Topographic Map, 7.5 Minute Quadrangles: Brooklyn, NY; Jersey City, NJ

Site Location

0 2,000 4,000 Feet

Department of Finance Digital Tax Map

NYC OpenData, State of New Jersey, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

Department of City Planning MapPluto 2023 v1

127 12th Street
Brooklyn, New York
Block 1020, Lot 52

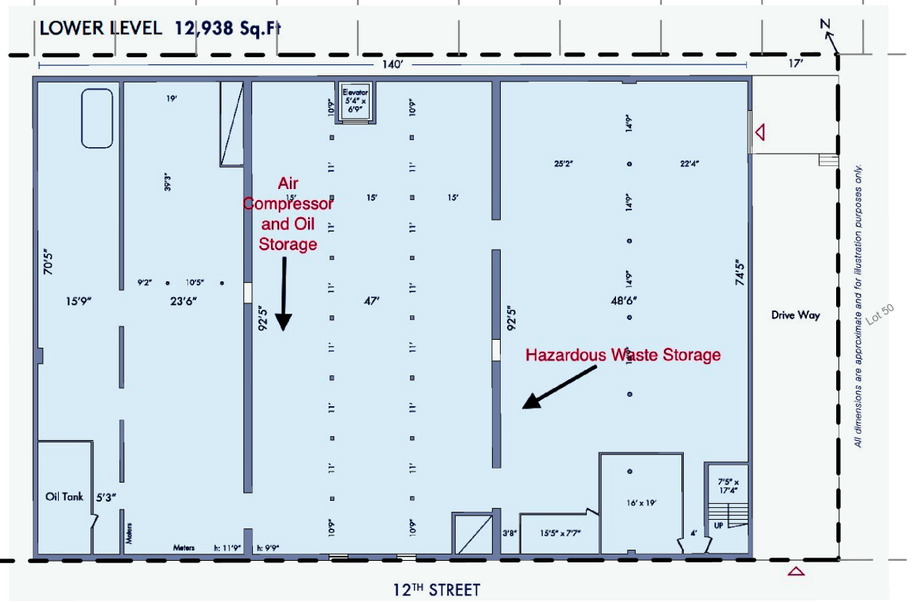
TENEN ENVIRONMENTAL

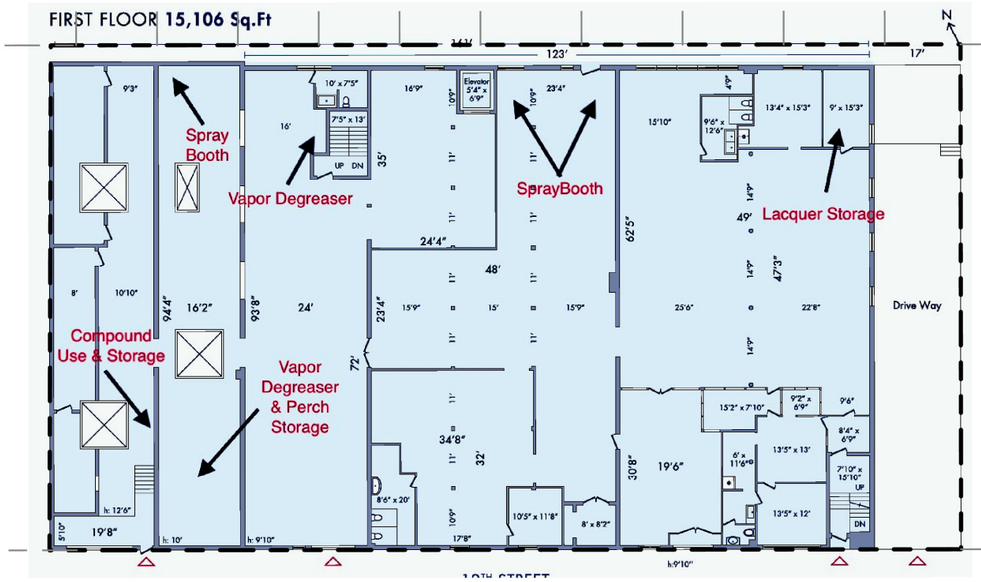
Tenen Environmental, LLC
121 West 27th Street
Suite 702
New York, NY 10001
P: (646) 606-2332
F: (646) 606-2379

Drawn By	LM
Checked By	MA
Date	May 2023
Scale	As Noted

Drawing Title: Site Location Map

Drawing No.: Figure 1





Legend

NYC Tax Lots

Site Bounday

0 15 30 60 Feet

Reference:
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

127 12th Street
Brooklyn, New York
Block 1020, Lot 52

TENEN ENVIRONMENTAL
Tenen Environmental, LLC
121 West 27th Street, Suite 702
New York, NY 10001
O: (646) 606-2332; F: (646) 606-2379

Drawn By	LM
Checked By	AC
Date	May 2024
Scale	As Noted

Drawing Title: Site Layout

Drawing No.: Figure 2

Legend

- Soil Sample Location
- Groundwater and Soil Sample Location
- Groundwater Sample Location
- Soil Vapor Sample
- Ambient
- NYC Tax Lots
- Site Bounday

Note:
Floor Plan shown is the Lower Level Plan
Except where noted as the First Floor Layout

0 10 20 40 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

127 12th Street
Brooklyn, New York
Block 1020, Lot 52

TENEN ENVIRONMENTAL
Tenen Environmental, LLC
121 West 27th Street, Suite 702
New York, NY 10001
O: (646) 606-2332; F: (646) 606-2379

Drawn By	Checked By	Date	Scale
LM	AC	May 2024	As Noted

Drawing Title: Sample Location Map

Drawing No.: Figure 3

Sample ID:	SV-1
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	5700
Trichloroethene	80.6
cis-1,2-Dichloroethene	377
Methylene chloride	ND
Carbon tetrachloride	ND
Chloroform	ND

Sample ID:	IA-1
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	**1270**
Trichloroethene	**4.82**
cis-1,2-Dichloroethene	0.349
Methylene chloride	21.4
Carbon tetrachloride	0.459
Chloroform	ND

Sample ID:	SV-4
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	10900
Trichloroethene	45.8
cis-1,2-Dichloroethene	ND
Methylene chloride	ND
Carbon tetrachloride	ND
Chloroform	25.6

Sample ID:	AA-1
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	100
Trichloroethene	0.118
cis-1,2-Dichloroethene	ND
Methylene chloride	3.72
Carbon tetrachloride	0.44
Chloroform	ND

Analyte	NYSDOH AGV
VOCs	µg/m³
Tetrachloroethene	30
Trichloroethene	2
cis-1,2-Dichloroethene	NS
Methylene chloride	60
Carbon tetrachloride	NS
Chloroform	NS

Sample ID:	SV-2
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	16100
Trichloroethene	537
cis-1,2-Dichloroethene	26.4
Methylene chloride	ND
Carbon tetrachloride	ND
Chloroform	752

Sample ID:	SV-3
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	11700
Trichloroethene	52.9
cis-1,2-Dichloroethene	ND
Methylene chloride	ND
Carbon tetrachloride	ND
Chloroform	ND

Notes:

1. **Bold value indicates concentration exceeds NYSDOH AGVs.**
2. NYSDOH AGVs = New York State Department of Health Air Guideline Values, Table 3.1 in NYSDOH Soil Vapor Guidance, October 2006 with May 2017 and February 2024 updates
3. Only indoor air concentrations are compared to NYSDOH AGVs
4. ND = Not Detected
5. µg/m³ = micrograms per cubic meter

Legend

- Soil Vapor Sample
- Indoor/Ambient Air Sample Location
- NYC Tax Lots
- Site Bounday

0 10 20 40 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

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Drawn By LM
Checked By AC
Date May 2024
Scale As Noted

Drawing Title Sub-Slab Soil Vapor and Indoor Air Analytical Results (Basement)

Drawing No. Figure 4A

Sample ID:	SV-5
Date:	5/22/2023
VOCs	µg/m³
Tetrachloroethene	3720
Trichloroethene	20.9
cis-1,2-Dichloroethene	ND
Methylene chloride	23
Carbon tetrachloride	ND
Chloroform	ND

Analyte	NYSDOH AGV
VOCs	µg/m³
Tetrachloroethene	30
Trichloroethene	2
cis-1,2-Dichloroethene	NS
Methylene chloride	60
Carbon tetrachloride	NS
Chloroform	NS

Notes:

1. **Bold value indicates concentration exceeds NYSDOH AGVs.**
2. NYSDOH AGVs = New York State Department of Health Air Guideline Values, Table 3.1 in NYSDOH Soil Vapor Guidance, October 2006 with May 2017 and February 2024 updates
3. Only indoor air concentrations are compared to NYSDOH AGVs
4. ND = Not Detected
5. µg/m³ = micrograms per cubic meter

Legend

- Soil Vapor Sample
- NYC Tax Lots
- Site Bounday

0 10 20 40 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

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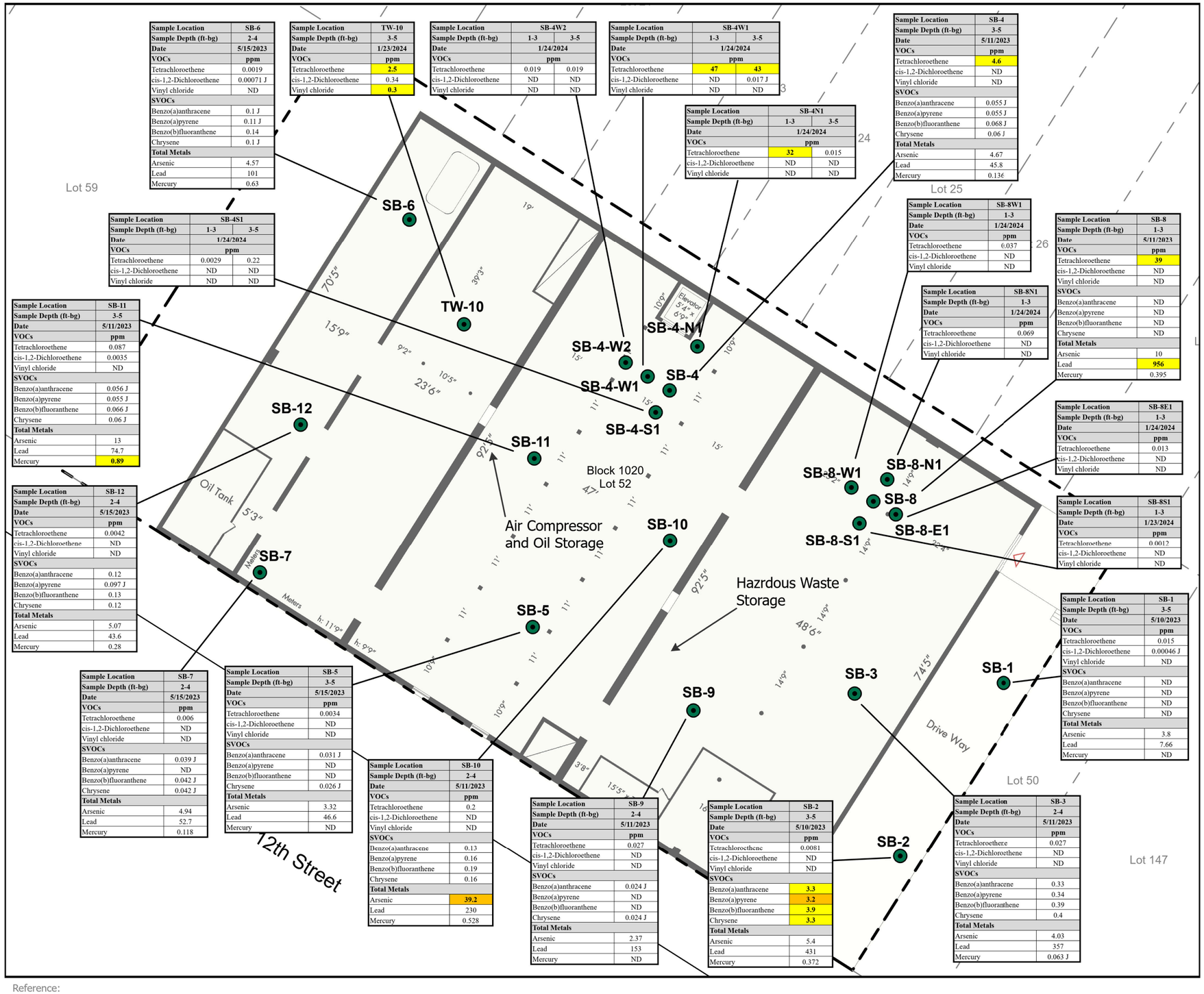
Drawn By LM
Checked By AC
Date May 2024
Scale As Noted

Drawing Title Sub-Slab Soil Vapor and Indoor Air Analytical Results (First Floor)

Drawing No. Figure 4B



Sample Location	SB-6
Sample Depth (ft-bg)	2-4
Date	5/15/2023
VOCs	ppm
Tetrachloroethene	0.0019
cis-1,2-Dichloroethene	0.00071 J
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.1 J
Benzo(a)pyrene	0.11 J
Benzo(b)fluoranthene	0.14
Chrysene	0.1 J
Total Metals	
Arsenic	4.57
Lead	101
Mercury	0.63

Sample Location	TW-10
Sample Depth (ft-bg)	3-5
Date	1/23/2024
VOCs	ppm
Tetrachloroethene	2.5
cis-1,2-Dichloroethene	0.34
Vinyl chloride	0.3

Sample Location	SB-4W2	
Sample Depth (ft-bg)	1-3	3-5
Date	1/24/2024	
VOCs	ppm	
Tetrachloroethene	0.019	0.019
cis-1,2-Dichloroethene	ND	ND
Vinyl chloride	ND	ND

Sample Location	SB-4W1	
Sample Depth (ft-bg)	1-3	3-5
Date	1/24/2024	
VOCs	ppm	
Tetrachloroethene	47	43
cis-1,2-Dichloroethene	ND	0.017 J
Vinyl chloride	ND	ND

Sample Location	SB-4N1	
Sample Depth (ft-bg)	1-3	3-5
Date	1/24/2024	
VOCs	ppm	
Tetrachloroethene	32	0.015
cis-1,2-Dichloroethene	ND	ND
Vinyl chloride	ND	ND

Sample Location	SB-4
Sample Depth (ft-bg)	3-5
Date	5/11/2023
VOCs	ppm
Tetrachloroethene	4.6
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.055 J
Benzo(a)pyrene	0.055 J
Benzo(b)fluoranthene	0.068 J
Chrysene	0.06 J
Total Metals	
Arsenic	4.67
Lead	45.8
Mercury	0.136

Sample Location	SB-4S1	
Sample Depth (ft-bg)	1-3	3-5
Date	1/24/2024	
VOCs	ppm	
Tetrachloroethene	0.0029	0.22
cis-1,2-Dichloroethene	ND	ND
Vinyl chloride	ND	ND

Sample Location	SB-8W1
Sample Depth (ft-bg)	1-3
Date	1/24/2024
VOCs	ppm
Tetrachloroethene	0.037
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND

Sample Location	SB-8
Sample Depth (ft-bg)	1-3
Date	5/11/2023
VOCs	ppm
Tetrachloroethene	39
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	ND
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	ND
Chrysene	ND
Total Metals	
Arsenic	10
Lead	956
Mercury	0.395

Sample Location	SB-8N1
Sample Depth (ft-bg)	1-3
Date	1/24/2024
VOCs	ppm
Tetrachloroethene	0.069
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND

Sample Location	SB-11
Sample Depth (ft-bg)	3-5
Date	5/11/2023
VOCs	ppm
Tetrachloroethene	0.087
cis-1,2-Dichloroethene	0.0035
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.056 J
Benzo(a)pyrene	0.055 J
Benzo(b)fluoranthene	0.066 J
Chrysene	0.06 J
Total Metals	
Arsenic	13
Lead	74.7
Mercury	0.89

Sample Location	SB-8E1
Sample Depth (ft-bg)	1-3
Date	1/24/2024
VOCs	ppm
Tetrachloroethene	0.013
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND

Sample Location	SB-12
Sample Depth (ft-bg)	2-4
Date	5/15/2023
VOCs	ppm
Tetrachloroethene	0.0042
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.12
Benzo(a)pyrene	0.097 J
Benzo(b)fluoranthene	0.13
Chrysene	0.12
Total Metals	
Arsenic	5.07
Lead	43.6
Mercury	0.28

Sample Location	SB-8S1
Sample Depth (ft-bg)	1-3
Date	1/23/2024
VOCs	ppm
Tetrachloroethene	0.0012
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND

Sample Location	SB-1
Sample Depth (ft-bg)	3-5
Date	5/10/2023
VOCs	ppm
Tetrachloroethene	0.015
cis-1,2-Dichloroethene	0.00046 J
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	ND
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	ND
Chrysene	ND
Total Metals	
Arsenic	3.8
Lead	7.66
Mercury	ND

Sample Location	SB-7
Sample Depth (ft-bg)	2-4
Date	5/15/2023
VOCs	ppm
Tetrachloroethene	0.006
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.039 J
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	0.042 J
Chrysene	0.042 J
Total Metals	
Arsenic	4.94
Lead	52.7
Mercury	0.118

Sample Location	SB-5
Sample Depth (ft-bg)	3-5
Date	5/15/2023
VOCs	ppm
Tetrachloroethene	0.0034
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.031 J
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	ND
Chrysene	0.026 J
Total Metals	
Arsenic	3.32
Lead	46.6
Mercury	ND

Sample Location	SB-10
Sample Depth (ft-bg)	2-4
Date	5/11/2023
VOCs	ppm
Tetrachloroethene	0.2
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.13
Benzo(a)pyrene	0.16
Benzo(b)fluoranthene	0.19
Chrysene	0.16
Total Metals	
Arsenic	39.2
Lead	230
Mercury	0.528

Sample Location	SB-9
Sample Depth (ft-bg)	2-4
Date	5/11/2023
VOCs	ppm
Tetrachloroethene	0.027
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.024 J
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	ND
Chrysene	0.024 J
Total Metals	
Arsenic	2.37
Lead	153
Mercury	ND

Sample Location	SB-2
Sample Depth (ft-bg)	3-5
Date	5/10/2023
VOCs	ppm
Tetrachloroethene	0.0081
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	3.3
Benzo(a)pyrene	3.2
Benzo(b)fluoranthene	3.9
Chrysene	3.3
Total Metals	
Arsenic	5.4
Lead	431
Mercury	0.372

Sample Location	SB-3
Sample Depth (ft-bg)	2-4
Date	5/11/2023
VOCs	ppm
Tetrachloroethene	0.027
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	0.33
Benzo(a)pyrene	0.34
Benzo(b)fluoranthene	0.39
Chrysene	0.4
Total Metals	
Arsenic	4.03
Lead	357
Mercury	0.063 J

Analyte	NY-PGW	NY-RESC
VOCs	ppm	
Tetrachloroethene	1.3	150
cis-1,2-Dichloroethene	0.25	500
Vinyl chloride	0.02	13
SVOCs		
Benzo(a)anthracene	1	5.6
Benzo(a)pyrene	22	1
Benzo(b)fluoranthene	1.7	5.6
Chrysene	1	56
Total Metals		
Arsenic	16	16
Lead	450	1000
Mercury	0.73	2.8

Notes:

1. **Bold and shaded yellow value indicates concentration exceeds NY-PGW SCOs**
2. Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs
3. NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives
4. NY-RESC = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives
5. J = Estimated value
6. ND = Not detected
7. ppm = parts per million
8. Soil samples collected during Tenen's January 2024 sampling event were analyzed for VOCs only

Legend

- Soil Sample Location
- NYC Tax Lots
- Site Bounday

0 10 20 40 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

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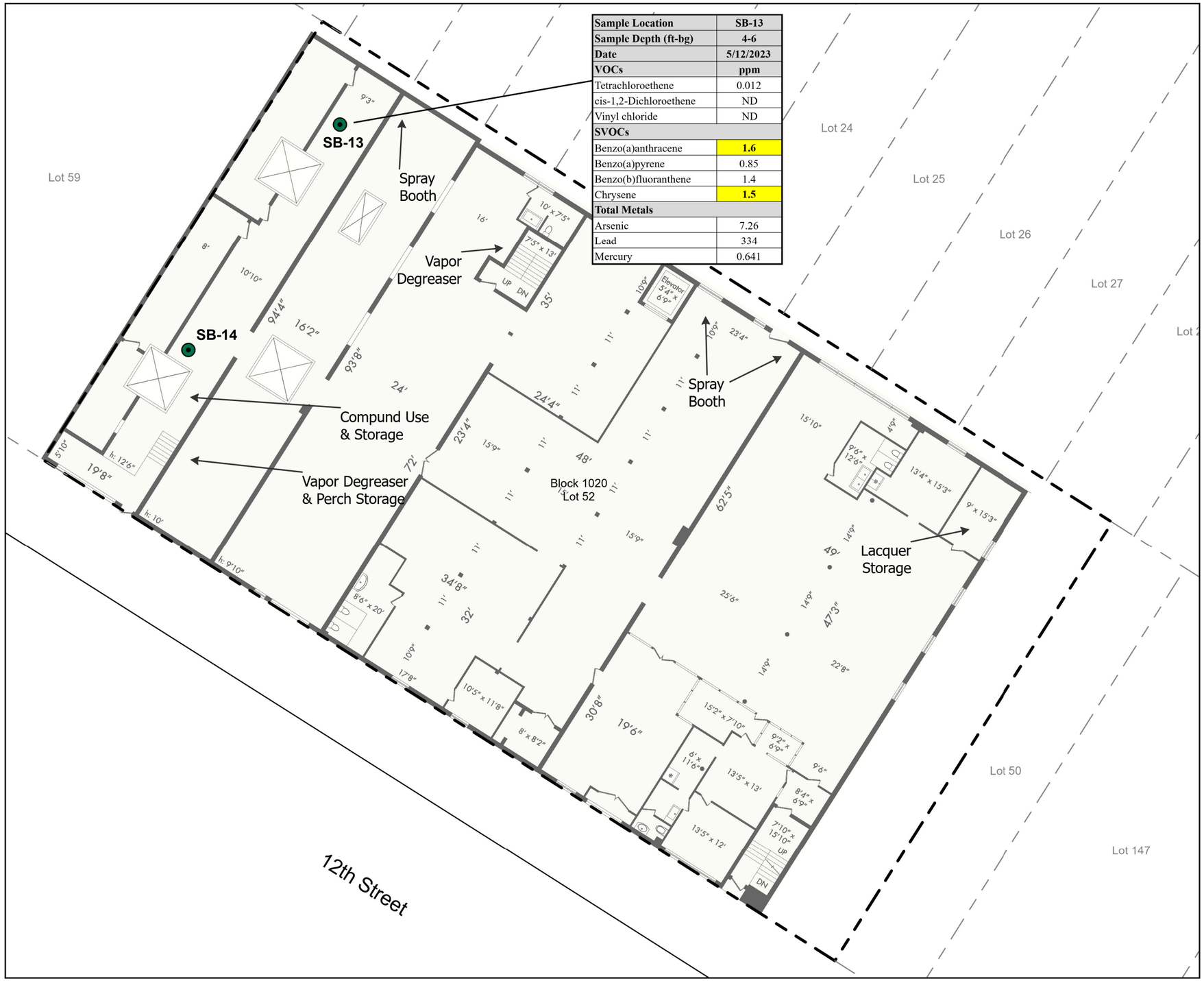
Drawn By	Checked By	Date	Scale
LM	AC	May 2024	As Noted

Drawing Title: Soil Analytical Results (Basement)

Drawing No.: Figure 5A



Sample Location	SB-13
Sample Depth (ft-bg)	4-6
Date	5/12/2023
VOCs	**ppm**
Tetrachloroethene	0.012
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
SVOCs	
Benzo(a)anthracene	**1.6**
Benzo(a)pyrene	0.85
Benzo(b)fluoranthene	1.4
Chrysene	**1.5**
Total Metals	
Arsenic	7.26
Lead	334
Mercury	0.641

Analyte	NY-PGW	NY-RESC
VOCs	**ppm**	
Tetrachloroethene	1.3	150
cis-1,2-Dichloroethene	0.25	500
Vinyl chloride	0.02	13
SVOCs		
Benzo(a)anthracene	1	5.6
Benzo(a)pyrene	22	1
Benzo(b)fluoranthene	1.7	5.6
Chrysene	1	56
Total Metals		
Arsenic	16	16
Lead	450	1000
Mercury	0.73	2.8

Notes:

1. **Bold and shaded yellow value indicates concentration exceeds NY-PGW SCOs**
2. Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs
3. NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives
4. NY-RESC = 6 NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives
5. J = Estimated value
6. ND = Not detected
7. ppm = parts per million
8. Soil samples collected during Tenen's January 2024 sampling event were analyzed for VOCs only

Legend

- Soil Sample Location
- NYC Tax Lots
- Site Bounday

0 10 20 40 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

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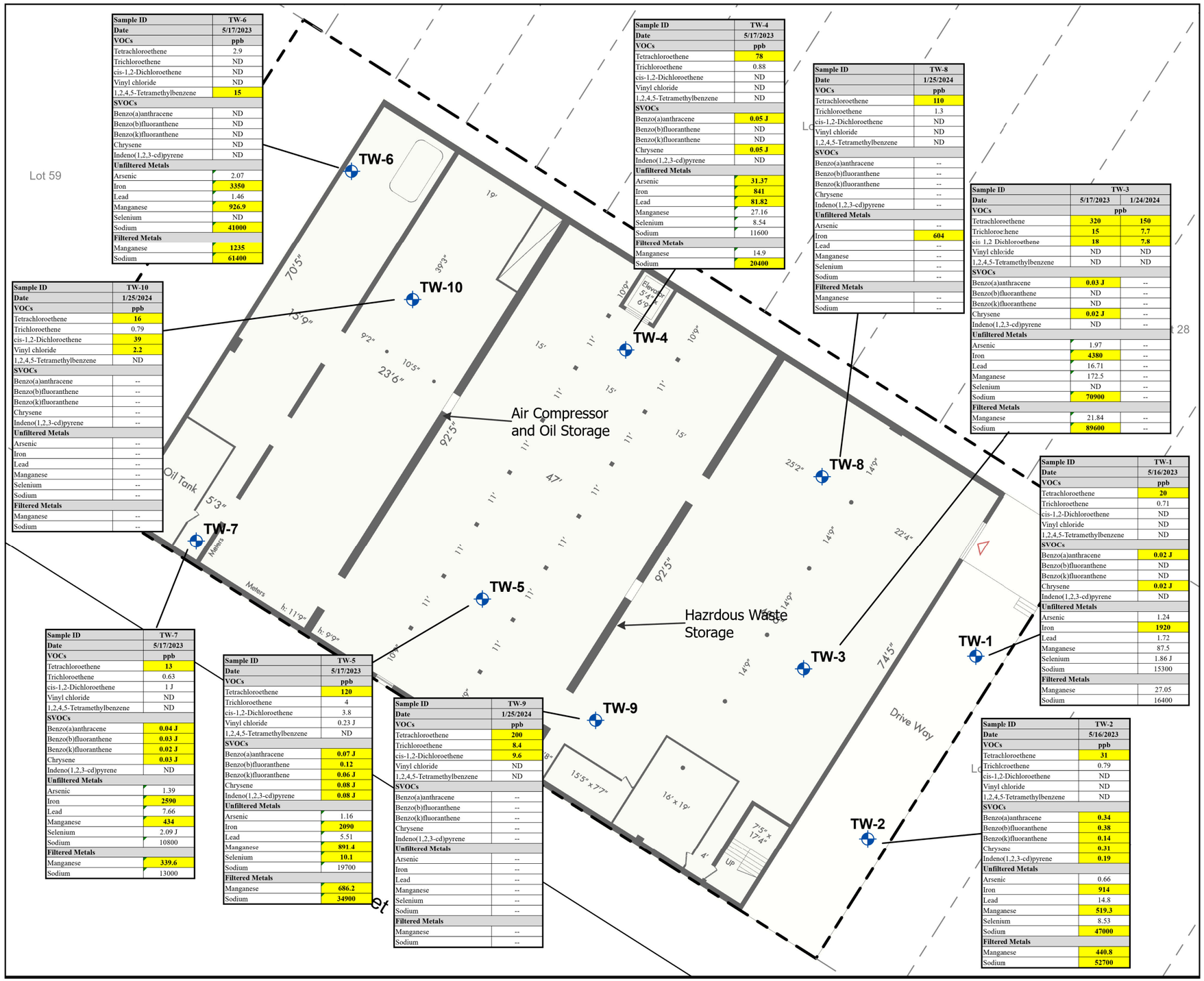
Drawn By: LM
Checked By: AC
Date: May 2024
Scale: As Noted

Drawing Title: Soil Analytical Results (First Floor)

Drawing No.: Figure 5B



Sample ID	TW-6
Date	5/17/2023
VOCs	ppb
Tetrachloroethene	2.9
Trichloroethene	ND
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	**15**
SVOCs	
Benzo(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Chrysene	ND
Indeno(1,2,3-cd)pyrene	ND
Unfiltered Metals	
Arsenic	2.07
Iron	**3350**
Lead	1.46
Manganese	**926.9**
Selenium	ND
Sodium	**41000**
Filtered Metals	
Manganese	**1235**
Sodium	**61400**

Sample ID	TW-10
Date	1/25/2024
VOCs	ppb
Tetrachloroethene	**16**
Trichloroethene	0.79
cis-1,2-Dichloroethene	**39**
Vinyl chloride	**2.2**
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	--
Benzo(b)fluoranthene	--
Benzo(k)fluoranthene	--
Chrysene	--
Indeno(1,2,3-cd)pyrene	--
Unfiltered Metals	
Arsenic	--
Iron	--
Lead	--
Manganese	--
Selenium	--
Sodium	--
Filtered Metals	
Manganese	--
Sodium	--

Sample ID	TW-4
Date	5/17/2023
VOCs	ppb
Tetrachloroethene	**78**
Trichloroethene	0.88
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	**0.05 J**
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Chrysene	**0.05 J**
Indeno(1,2,3-cd)pyrene	ND
Unfiltered Metals	
Arsenic	**31.37**
Iron	**841**
Lead	**81.82**
Manganese	27.16
Selenium	8.54
Sodium	11600
Filtered Metals	
Manganese	14.9
Sodium	**20400**

Sample ID	TW-8
Date	1/25/2024
VOCs	ppb
Tetrachloroethene	**110**
Trichloroethene	1.3
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	--
Benzo(b)fluoranthene	--
Benzo(k)fluoranthene	--
Chrysene	--
Indeno(1,2,3-cd)pyrene	--
Unfiltered Metals	
Arsenic	--
Iron	**604**
Lead	--
Manganese	--
Selenium	--
Sodium	--
Filtered Metals	
Manganese	--
Sodium	--

Sample ID	TW-3	
Date	5/17/2023	1/24/2024
VOCs	ppb	
Tetrachloroethene	**320**	**150**
Trichloroethene	**15**	**7.7**
cis 1,2 Dichloroethene	**18**	**7.8**
Vinyl chloride	ND	ND
1,2,4,5-Tetramethylbenzene	ND	ND
SVOCs		
Benzo(a)anthracene	**0.03 J**	--
Benzo(b)fluoranthene	ND	--
Benzo(k)fluoranthene	ND	--
Chrysene	**0.02 J**	--
Indeno(1,2,3-cd)pyrene	ND	--
Unfiltered Metals		
Arsenic	1.97	--
Iron	**4380**	--
Lead	16.71	--
Manganese	172.5	--
Selenium	ND	--
Sodium	**70900**	--
Filtered Metals		
Manganese	21.84	--
Sodium	**89600**	--

Sample ID	TW-1
Date	5/16/2023
VOCs	ppb
Tetrachloroethene	**20**
Trichloroethene	0.71
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	**0.02 J**
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Chrysene	**0.02 J**
Indeno(1,2,3-cd)pyrene	ND
Unfiltered Metals	
Arsenic	1.24
Iron	**1920**
Lead	1.72
Manganese	87.5
Selenium	1.86 J
Sodium	15300
Filtered Metals	
Manganese	27.05
Sodium	16400

Sample ID	TW-7
Date	5/17/2023
VOCs	ppb
Tetrachloroethene	**13**
Trichloroethene	0.63
cis-1,2-Dichloroethene	1 J
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	**0.04 J**
Benzo(b)fluoranthene	**0.03 J**
Benzo(k)fluoranthene	**0.02 J**
Chrysene	**0.03 J**
Indeno(1,2,3-cd)pyrene	ND
Unfiltered Metals	
Arsenic	1.39
Iron	**2590**
Lead	7.66
Manganese	**434**
Selenium	2.09 J
Sodium	10800
Filtered Metals	
Manganese	**339.6**
Sodium	13000

Sample ID	TW-5
Date	5/17/2023
VOCs	ppb
Tetrachloroethene	**120**
Trichloroethene	4
cis-1,2-Dichloroethene	3.8
Vinyl chloride	0.23 J
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	**0.07 J**
Benzo(b)fluoranthene	**0.12**
Benzo(k)fluoranthene	**0.06 J**
Chrysene	**0.08 J**
Indeno(1,2,3-cd)pyrene	**0.08 J**
Unfiltered Metals	
Arsenic	1.16
Iron	**2090**
Lead	5.51
Manganese	**891.4**
Selenium	**10.1**
Sodium	19700
Filtered Metals	
Manganese	**686.2**
Sodium	**34900**

Sample ID	TW-9
Date	1/25/2024
VOCs	ppb
Tetrachloroethene	**200**
Trichloroethene	**8.4**
cis-1,2-Dichloroethene	**9.6**
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	--
Benzo(b)fluoranthene	--
Benzo(k)fluoranthene	--
Chrysene	--
Indeno(1,2,3-cd)pyrene	--
Unfiltered Metals	
Arsenic	--
Iron	--
Lead	--
Manganese	--
Selenium	--
Sodium	--
Filtered Metals	
Manganese	--
Sodium	--

Sample ID	TW-2
Date	5/16/2023
VOCs	ppb
Tetrachloroethene	**31**
Trichloroethene	0.79
cis-1,2-Dichloroethene	ND
Vinyl chloride	ND
1,2,4,5-Tetramethylbenzene	ND
SVOCs	
Benzo(a)anthracene	**0.34**
Benzo(b)fluoranthene	**0.38**
Benzo(k)fluoranthene	**0.14**
Chrysene	**0.31**
Indeno(1,2,3-cd)pyrene	**0.19**
Unfiltered Metals	
Arsenic	0.66
Iron	**914**
Lead	14.8
Manganese	**519.3**
Selenium	8.53
Sodium	**47000**
Filtered Metals	
Manganese	**440.8**
Sodium	**52700**

Analyte	NY-AWQS
VOCs	ppb
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	5
Vinyl chloride	2
1,2,4,5-Tetramethylbenzene	5
SVOCs	
Benzo(a)anthracene	0.002
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-cd)pyrene	0.002
Unfiltered Metals	
Arsenic	25
Iron	300
Lead	25
Manganese	300
Selenium	10
Sodium	20000
Filtered Metals	
Manganese	300
Sodium	20000

Notes:

1. **Bold and shaded yellow value indicates concentration exceeds NY-AWQS**
2. NY-AWQS = NYSDEC Division of Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS)
3. ND = Not detected
4. ppb = parts per billion
5. -- = Not analyzed

Legend

- Groundwater Sample Location
- NYC Tax Lots
- Site Bounday

0 10 20 40 Feet

Reference:
Floor Plan: TERRACRG Commercial Realty Group
Parcel Boundaries: Contributing counties, NYS Office of Information Technology Services GIS Program Office (GPO) and NYS Department of Taxation and Finance's Office of Real Property Tax Services (ORPTS).

127 12th Street
Brooklyn, New York
Block 1020, Lot 52

TENEN ENVIRONMENTAL
Tenen Environmental, LLC
121 West 27th Street, Suite 702
New York, NY 10001
O: (646) 606-2332; F: (646) 606-2379

Drawn By	LM
Checked By	AC
Date	May 2024
Scale	As Noted

Drawing Title: Groundwater Analytical Results

Drawing No.: Figure 6

Tables

Table 1. Volatile Organic Compounds in Sub-Slab Soil Vapor, Indoor Air, and Ambient Air
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	Units	AA-1		IA-1		SV-1		SV-2		SV-3		SV-4		SV-5	
SAMPLING DATE		5/22/2023		5/22/2023		5/22/2023		5/22/2023		5/22/2023		5/22/2023		5/22/2023	
LAB SAMPLE ID		L2328582-07		L2328582-06		L2328582-01		L2328582-02		L2328582-03		L2328582-04		L2328582-05	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds															
Dichlorodifluoromethane	ug/m^3	2.47		2.29		ND		ND		ND		ND		ND	
Chloromethane	ug/m^3	1.21		1.22		ND		ND		ND		ND		ND	
Freon-114	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Vinyl chloride	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,3-Butadiene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Bromomethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Chloroethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Ethanol	ug/m^3	ND		10.7		ND		ND		ND		ND		ND	
Vinyl bromide	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Acetone	ug/m^3	7.93		15.3		ND		ND		ND		ND		ND	
Trichlorofluoromethane	ug/m^3	1.16		1.17		ND		ND		ND		ND		ND	
Isopropanol	ug/m^3	2.1		6.91		ND		ND		ND		ND		ND	
1,1-Dichloroethene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Tertiary butyl Alcohol	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	ug/m^3	3.72		21.4		ND		ND		ND		ND		23	
3-Chloropropene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Carbon disulfide	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Freon-113	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,1-Dichloroethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Methyl tert butyl ether	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
2-Butanone	ug/m^3	3.6		13.1		ND		ND		ND		ND		18.7	
cis-1,2-Dichloroethene	ug/m^3	ND		0.349		377		26.4		ND		ND		ND	
Ethyl Acetate	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Chloroform	ug/m^3	ND		ND		ND		752		ND		25.6		ND	
Tetrahydrofuran	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
n-Hexane	ug/m^3	ND		1		ND		ND		ND		ND		ND	
1,1,1-Trichloroethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Benzene	ug/m^3	ND		0.68		ND		ND		ND		ND		ND	
Carbon tetrachloride	ug/m^3	0.44		0.459		ND		ND		ND		ND		ND	
Cyclohexane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Bromodichloromethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,4-Dioxane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	ug/m^3	0.118		4.82		80.6		537		52.9		45.8		20.9	
2,2,4-Trimethylpentane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Heptane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
cis-1,3-Dichloropropene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
4-Methyl-2-pentanone	ug/m^3	2.5		12.5		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Toluene	ug/m^3	1.87		8.55		ND		19.7		19.3		ND		32.3	
2-Hexanone	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Dibromochloromethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	

Table 1. Volatile Organic Compounds in Sub-Slab Soil Vapor, Indoor Air, and Ambient Air
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	Units	AA-1		IA-1		SV-1		SV-2		SV-3		SV-4		SV-5	
SAMPLING DATE		5/22/2023		5/22/2023		5/22/2023		5/22/2023		5/22/2023		5/22/2023		5/22/2023	
LAB SAMPLE ID		L2328582-07		L2328582-06		L2328582-01		L2328582-02		L2328582-03		L2328582-04		L2328582-05	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds															
1,2-Dibromoethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Tetrachloroethene	ug/m^3	100		1270		5700		16100		11700		10900		3720	
Chlorobenzene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Ethylbenzene	ug/m^3	ND		1.55		ND		ND		ND		ND		ND	
p/m-Xylene	ug/m^3	ND		5.34		ND		ND		ND		ND		22.5	
Bromoform	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Styrene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
o-Xylene	ug/m^3	ND		1.52		ND		ND		ND		ND		ND	
4-Ethyltoluene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	ug/m^3	ND		1.62		ND		ND		ND		ND		ND	
Benzyl chloride	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene	ug/m^3	ND		ND		ND		ND		ND		ND		ND	

Notes:
ND = Not detected

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04	
						Qual		Qual		Qual		Qual
General Chemistry												
Solids, Total	NS	NS	NS	%	82.3		89.9		89.1		89.8	
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		0.034	
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	0.00046	J	ND		ND		ND	
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		ND		ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Butanone	0.12	0.12	500	mg/kg	ND		ND		0.0053	J	ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04	
						Qual		Qual		Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Acetone	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		0.00024	J	ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND		ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chloroform	0.37	0.37	350	mg/kg	ND		ND		ND		ND	
Chloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	0.00046	J	ND		ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND		ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		ND		ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04	
						Qual		Qual		Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		0.0013	J	0.00079	J	0.044	J
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		ND		ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		ND		ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	--		--		--		**47**	**E**
Tetrachloroethene	1.3	1.3	150	mg/kg	0.015		0.0081		0.027		**39**	
Toluene	0.7	0.7	500	mg/kg	ND		ND		ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		ND		ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	0.0077		ND		ND		0.099	
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		ND		ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)	SB-2 (3-5)	SB-3 (2-4)	SB-8 (1-3)
SAMPLING DATE					5/10/2023	5/10/2023	5/11/2023	5/11/2023
LAB SAMPLE ID					L2326314-01	L2326314-02	L2326314-03	L2326314-04
					Qual	Qual	Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)		SB-10 (2-4)		SB-4 (3-5)		SB-11 (3-5)	
SAMPLING DATE					5/11/2023		5/11/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-05		L2326314-06		L2326314-07		L2326314-08	
						Qual		Qual		Qual		Qual
General Chemistry												
Solids, Total	NS	NS	NS	%	87.7		88		84.4		84.6	
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		0.00055	J	ND		ND	
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	ND		ND		ND		0.0035	
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		ND		ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Butanone	0.12	0.12	500	mg/kg	0.0045	J	0.0058	J	ND		0.006	J

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)		SB-10 (2-4)		SB-4 (3-5)		SB-11 (3-5)	
SAMPLING DATE					5/11/2023		5/11/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-05		L2326314-06		L2326314-07		L2326314-08	
						Qual		Qual		Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Acetone	0.05	0.05	500	mg/kg	ND		ND		ND		0.0093	J
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		ND		ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND		ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chloroform	0.37	0.37	350	mg/kg	ND		0.001	J	ND		0.001	J
Chloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	ND		ND		ND		0.0035	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND		ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		0.0051	J	ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		ND		ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)		SB-10 (2-4)		SB-4 (3-5)		SB-11 (3-5)	
SAMPLING DATE					5/11/2023		5/11/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-05		L2326314-06		L2326314-07		L2326314-08	
						Qual		Qual		Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		ND		ND		ND	
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		ND		ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND		0.033	J	ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		ND		ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	--		--		--		--	
Tetrachloroethene	1.3	1.3	150	mg/kg	0.027		0.2		**4.6**		0.087	
Toluene	0.7	0.7	500	mg/kg	ND		ND		ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		ND		ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	ND		0.003		0.028	J	0.0025	
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		ND		ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)	SB-10 (2-4)	SB-4 (3-5)	SB-11 (3-5)
SAMPLING DATE					5/11/2023	5/11/2023	5/11/2023	5/11/2023
LAB SAMPLE ID					L2326314-05	L2326314-06	L2326314-07	L2326314-08
					Qual	Qual	Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)	
SAMPLING DATE					5/12/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-09		L2326314-13		L2326314-14		L2326314-15	
						Qual		Qual		Qual		Qual
General Chemistry												
Solids, Total	NS	NS	NS	%	95.6		82.6		77.2		85.1	
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		ND		ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Butanone	0.12	0.12	500	mg/kg	ND		0.0081	J	0.007	J	ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)	
SAMPLING DATE					5/12/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-09		L2326314-13		L2326314-14		L2326314-15	
						Qual		Qual		Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Acetone	0.05	0.05	500	mg/kg	ND		0.0071	J	ND		ND	
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		ND		ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromomethane	NS	NS	NS	mg/kg	0.00087	J	ND		ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND		ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chloroform	0.37	0.37	350	mg/kg	ND		ND		ND		0.00032	J
Chloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	ND		ND		ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND		ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		ND		ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)	
SAMPLING DATE					5/12/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-09		L2326314-13		L2326314-14		L2326314-15	
						Qual		Qual		Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		ND		ND		ND	
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		ND		ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		ND		ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	--		--		--		--	
Tetrachloroethene	1.3	1.3	150	mg/kg	0.012		0.0034		0.006		0.0042	
Toluene	0.7	0.7	500	mg/kg	ND		ND		ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		ND		ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	ND		ND		ND		ND	
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		ND		ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)	SB-5 (3-5)	SB-7 (2-4)	SB-12 (2-4)
SAMPLING DATE					5/12/2023	5/15/2023	5/15/2023	5/15/2023
LAB SAMPLE ID					L2326314-09	L2326314-13	L2326314-14	L2326314-15
					Qual	Qual	Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)		TW-10 (3-5)		SB-8S1 (1-3)		SB-8E1 (1-3)	
SAMPLING DATE					5/15/2023		1/23/2024		1/23/2024		1/24/2024	
LAB SAMPLE ID					L2326314-16		L2404125-01		L2404125-03		L2404125-07	
						Qual		Qual		Qual		Qual
General Chemistry												
Solids, Total	NS	NS	NS	%	83.8		73.9		85.2		80.1	
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND		0.053	J	ND		ND	
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND		0.03	J	ND		ND	
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND		2.5		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		0.023	J	ND		ND	
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND		1.6		ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	0.00071	J	2.5	J	ND		ND	
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND		0.76		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		0.015	J	ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Butanone	0.12	0.12	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)		TW-10 (3-5)		SB-8S1 (1-3)		SB-8E1 (1-3)	
SAMPLING DATE					5/15/2023		1/23/2024		1/23/2024		1/24/2024	
LAB SAMPLE ID					L2326314-16		L2404125-01		L2404125-03		L2404125-07	
						Qual		Qual		Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Acetone	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		ND		ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND		ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		0.018	J	ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chloroform	0.37	0.37	350	mg/kg	ND		ND		ND		ND	
Chloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	0.00071	J	**2.5**		ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		0.13		ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		0.59		ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND		ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		0.15		ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		0.9		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)		TW-10 (3-5)		SB-8S1 (1-3)		SB-8E1 (1-3)	
SAMPLING DATE					5/15/2023		1/23/2024		1/23/2024		1/24/2024	
LAB SAMPLE ID					L2326314-16		L2404125-01		L2404125-03		L2404125-07	
						Qual		Qual		Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		0.32	J	ND		ND	
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		0.28		ND		ND	
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		9.3		ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		1.5		ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		0.038	J	ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		0.46		ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		0.52		ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		0.03	J	ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	--		--		--		--	
Tetrachloroethene	1.3	1.3	150	mg/kg	0.0019		0.34		0.0012		0.013	
Toluene	0.7	0.7	500	mg/kg	ND		0.086		ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		0.03	J	ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	ND		0.12		ND		ND	
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		**0.3**		ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		**0.74**		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)	TW-10 (3-5)	SB-8S1 (1-3)	SB-8E1 (1-3)
SAMPLING DATE					5/15/2023	1/23/2024	1/23/2024	1/24/2024
LAB SAMPLE ID					L2326314-16	L2404125-01	L2404125-03	L2404125-07
					Qual	Qual	Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-8W1 (1-3)	SB-8N1 (1-3)	SB-4S1 (1-3)	SB-4S1 (3-5)
SAMPLING DATE					1/24/2024	1/24/2024	1/24/2024	1/24/2024
LAB SAMPLE ID					L2404125-11	L2404125-15	L2404125-17	L2404125-18
					Qual	Qual	Qual	Qual
General Chemistry								
Solids, Total	NS	NS	NS	%	81.2	81.6	88.8	88.2
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND	ND	ND	ND
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND	ND	ND	ND
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND	ND	ND	ND
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND	ND	ND	ND
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND	ND	ND	ND
1,4-Dioxane	0.1	0.1	130	mg/kg	ND	ND	ND	ND
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND	ND	ND	ND
2-Butanone	0.12	0.12	500	mg/kg	ND	ND	ND	ND

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-8W1 (1-3)		SB-8N1 (1-3)		SB-4S1 (1-3)		SB-4S1 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024		1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-11		L2404125-15		L2404125-17		L2404125-18	
						Qual		Qual		Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Acetone	0.05	0.05	500	mg/kg	0.011	J	0.008	J	ND		ND	
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		ND		ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND		ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chloroform	0.37	0.37	350	mg/kg	ND		ND		ND		ND	
Chloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	ND		ND		ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND		ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		ND		ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-8W1 (1-3)		SB-8N1 (1-3)		SB-4S1 (1-3)		SB-4S1 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024		1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-11		L2404125-15		L2404125-17		L2404125-18	
						Qual		Qual		Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		ND		ND		0.0025	J
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		0.00064	J
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		ND		ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		ND		ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	--		--		--		--	
Tetrachloroethene	1.3	1.3	150	mg/kg	0.037		0.069		0.0029		0.22	
Toluene	0.7	0.7	500	mg/kg	ND		ND		ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		ND		ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	0.00026	J	0.00034	J	ND		0.00039	J
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		ND		ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		ND		ND		0.00064	J

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-8W1 (1-3)	SB-8N1 (1-3)	SB-4S1 (1-3)	SB-4S1 (3-5)
SAMPLING DATE					1/24/2024	1/24/2024	1/24/2024	1/24/2024
LAB SAMPLE ID					L2404125-11	L2404125-15	L2404125-17	L2404125-18
					Qual	Qual	Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4W1 (1-3)		SB-4W1 (3-5)		SB-4W2 (1-3)		SB-4W2 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024		1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-21		L2404125-22		L2404125-23		L2404125-24	
						Qual		Qual		Qual		Qual
General Chemistry												
Solids, Total	NS	NS	NS	%	80.9		81.1		83		82.8	
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND		ND		ND		ND	
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND		ND		ND		ND	
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	ND		0.017	J	ND		ND	
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		ND		ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Butanone	0.12	0.12	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4W1 (1-3)		SB-4W1 (3-5)		SB-4W2 (1-3)		SB-4W2 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024		1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-21		L2404125-22		L2404125-23		L2404125-24	
						Qual		Qual		Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Acetone	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		ND		ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND		ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chloroform	0.37	0.37	350	mg/kg	0.024	JB	0.032	J	ND		ND	
Chloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	ND		0.017	J	ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND		ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		ND		ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		ND		ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		ND		ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4W1 (1-3)		SB-4W1 (3-5)		SB-4W2 (1-3)		SB-4W2 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024		1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-21		L2404125-22		L2404125-23		L2404125-24	
						Qual		Qual		Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		ND		ND		ND	
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		ND		ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		ND		ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	**47**		**47**	**E**	--		--	
Tetrachloroethene	1.3	1.3	150	mg/kg	**45**	**E**	**43**		0.019		0.018	
Toluene	0.7	0.7	500	mg/kg	ND		ND		ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		ND		ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	0.12		0.13		ND		ND	
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		ND		ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4W1 (1-3)	SB-4W1 (3-5)	SB-4W2 (1-3)	SB-4W2 (3-5)
SAMPLING DATE					1/24/2024	1/24/2024	1/24/2024	1/24/2024
LAB SAMPLE ID					L2404125-21	L2404125-22	L2404125-23	L2404125-24
					Qual	Qual	Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4N1 (1-3)	SB-4N1 (3-5)
SAMPLING DATE					1/24/2024	1/24/2024
LAB SAMPLE ID					L2404125-25	L2404125-26
					Qual	Qual
General Chemistry						
Solids, Total	NS	NS	NS	%	84.9	82.5
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND	ND
1,1,1-Trichloroethane	0.68	0.68	500	mg/kg	ND	ND
1,1,2,2-Tetrachloroethane	NS	NS	NS	mg/kg	ND	ND
1,1,2-Trichloroethane	NS	NS	NS	mg/kg	ND	ND
1,1-Dichloroethane	0.27	0.27	240	mg/kg	ND	ND
1,1-Dichloroethene	0.33	0.33	500	mg/kg	ND	ND
1,1-Dichloropropene	NS	NS	NS	mg/kg	ND	ND
1,2,3-Trichlorobenzene	NS	NS	NS	mg/kg	ND	ND
1,2,3-Trichloropropane	NS	NS	NS	mg/kg	ND	ND
1,2,4,5-Tetramethylbenzene	NS	NS	NS	mg/kg	ND	ND
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND	ND
1,2,4-Trimethylbenzene	3.6	3.6	190	mg/kg	ND	ND
1,2-Dibromo-3-chloropropane	NS	NS	NS	mg/kg	ND	ND
1,2-Dibromoethane	NS	NS	NS	mg/kg	ND	ND
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND	ND
1,2-Dichloroethane	0.02	0.02	30	mg/kg	ND	ND
1,2-Dichloroethene, Total	NS	NS	NS	mg/kg	ND	ND
1,2-Dichloropropane	NS	NS	NS	mg/kg	ND	ND
1,3,5-Trimethylbenzene	8.4	8.4	190	mg/kg	ND	ND
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND	ND
1,3-Dichloropropane	NS	NS	NS	mg/kg	ND	ND
1,3-Dichloropropene, Total	NS	NS	NS	mg/kg	ND	ND
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND	ND
1,4-Dioxane	0.1	0.1	130	mg/kg	ND	ND
2,2-Dichloropropane	NS	NS	NS	mg/kg	ND	ND
2-Butanone	0.12	0.12	500	mg/kg	ND	ND

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4N1 (1-3)		SB-4N1 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-25		L2404125-26	
						Qual		Qual
2-Hexanone	NS	NS	NS	mg/kg	ND		ND	
4-Methyl-2-pentanone	NS	NS	NS	mg/kg	ND		ND	
Acetone	0.05	0.05	500	mg/kg	ND		ND	
Acrylonitrile	NS	NS	NS	mg/kg	ND		ND	
Benzene	0.06	0.06	44	mg/kg	ND		ND	
Bromobenzene	NS	NS	NS	mg/kg	ND		ND	
Bromochloromethane	NS	NS	NS	mg/kg	ND		ND	
Bromodichloromethane	NS	NS	NS	mg/kg	ND		ND	
Bromoform	NS	NS	NS	mg/kg	ND		ND	
Bromomethane	NS	NS	NS	mg/kg	ND		ND	
Carbon disulfide	NS	NS	NS	mg/kg	ND		ND	
Carbon tetrachloride	0.76	0.76	22	mg/kg	ND		ND	
Chlorobenzene	1.1	1.1	500	mg/kg	ND		ND	
Chloroethane	NS	NS	NS	mg/kg	ND		ND	
Chloroform	0.37	0.37	350	mg/kg	0.018	JB	ND	
Chloromethane	NS	NS	NS	mg/kg	ND		ND	
cis-1,2-Dichloroethene	0.25	0.25	500	mg/kg	ND		ND	
cis-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND	
Dibromochloromethane	NS	NS	NS	mg/kg	ND		ND	
Dibromomethane	NS	NS	NS	mg/kg	ND		ND	
Dichlorodifluoromethane	NS	NS	NS	mg/kg	ND		ND	
Ethyl ether	NS	NS	NS	mg/kg	ND		ND	
Ethylbenzene	1	1	390	mg/kg	ND		ND	
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND	
Isopropylbenzene	NS	NS	NS	mg/kg	ND		ND	
Methyl tert butyl ether	0.93	0.93	500	mg/kg	ND		ND	
Methylene chloride	0.05	0.05	500	mg/kg	ND		ND	
n-Butylbenzene	12	12	500	mg/kg	ND		ND	
n-Propylbenzene	3.9	3.9	500	mg/kg	ND		ND	

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4N1 (1-3)		SB-4N1 (3-5)	
SAMPLING DATE					1/24/2024		1/24/2024	
LAB SAMPLE ID					L2404125-25		L2404125-26	
						Qual		Qual
Naphthalene	12	12	500	mg/kg	ND		ND	
o-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND	
o-Xylene	NS	NS	NS	mg/kg	ND		ND	
p-Chlorotoluene	NS	NS	NS	mg/kg	ND		ND	
p-Diethylbenzene	NS	NS	NS	mg/kg	ND		ND	
p-Ethyltoluene	NS	NS	NS	mg/kg	ND		ND	
p-Isopropyltoluene	NS	NS	NS	mg/kg	ND		ND	
p/m-Xylene	NS	NS	NS	mg/kg	ND		ND	
sec-Butylbenzene	11	11	500	mg/kg	ND		ND	
Styrene	NS	NS	NS	mg/kg	ND		ND	
tert-Butylbenzene	5.9	5.9	500	mg/kg	ND		ND	
Tetrachloroethene	1.3	1.3	150	mg/kg	**32**		--	
Tetrachloroethene	1.3	1.3	150	mg/kg	**26**	**E**	0.015	
Toluene	0.7	0.7	500	mg/kg	ND		ND	
trans-1,2-Dichloroethene	0.19	0.19	500	mg/kg	ND		ND	
trans-1,3-Dichloropropene	NS	NS	NS	mg/kg	ND		ND	
trans-1,4-Dichloro-2-butene	NS	NS	NS	mg/kg	ND		ND	
Trichloroethene	0.47	0.47	200	mg/kg	0.041		ND	
Trichlorofluoromethane	NS	NS	NS	mg/kg	ND		ND	
Vinyl acetate	NS	NS	NS	mg/kg	ND		ND	
Vinyl chloride	0.02	0.02	13	mg/kg	ND		ND	
Xylenes, Total	0.26	1.6	500	mg/kg	ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

Table 2a. Volatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-4N1 (1-3)	SB-4N1 (3-5)
SAMPLING DATE					1/24/2024	1/24/2024
LAB SAMPLE ID					L2404125-25	L2404125-26
					Qual	Qual

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

E = Concentration exceeds calibration range

B = Analyte found in sample and associated blank

ND = Not detected

NS = No standard

-- = Not analyzed

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		ND		ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,4,5-Trichlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4,6-Trichlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dichlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dimethylphenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dinitrophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dinitrotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,6-Dinitrotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Chloronaphthalene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Chlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Methylnaphthalene	NS	NS	NS	mg/kg	ND		0.2	J	ND		ND	
2-Methylphenol	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
2-Nitroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Nitrophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
3,3'-Dichlorobenzidine	NS	NS	NS	mg/kg	ND		ND		ND		ND	
3-Methylphenol/4-Methylphenol	0.33	0.33	500	mg/kg	ND		0.028	J	ND		ND	
3-Nitroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4,6-Dinitro-o-cresol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Bromophenyl phenyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Chloroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Nitroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Nitrophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
Acenaphthene	20	98	500	mg/kg	ND		0.38		0.047	J	ND	
Acenaphthylene	100	107	500	mg/kg	ND		0.5		0.034	J	ND	
Acetophenone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Anthracene	100	1000	500	mg/kg	ND		1.2		0.11		ND	
Benzo(a)anthracene	1	1	5.6	mg/kg	ND		**3.3**		0.33		ND	
Benzo(a)pyrene	1	22	1	mg/kg	ND		**3.2**		0.34		ND	
Benzo(b)fluoranthene	1	1.7	5.6	mg/kg	ND		**3.9**		0.39		ND	
Benzo(ghi)perylene	100	1000	500	mg/kg	ND		2.4		0.21		ND	
Benzo(k)fluoranthene	0.8	1.7	56	mg/kg	ND		**1.4**		0.17		ND	
Benzoic Acid	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzyl Alcohol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Biphenyl	NS	NS	NS	mg/kg	ND		0.047	J	ND		ND	
Bis(2-chloroethoxy)methane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroethyl)ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	mg/kg	ND		1.1		ND		ND	
Butyl benzyl phthalate	NS	NS	NS	mg/kg	ND		4.7		ND		ND	
Carbazole	NS	NS	NS	mg/kg	ND		0.64		0.06	J	ND	
Chrysene	1	1	56	mg/kg	ND		**3.3**		0.4		ND	
Di-n-butylphthalate	NS	NS	NS	mg/kg	ND		0.13	J	ND		ND	
Di-n-octylphthalate	NS	NS	NS	mg/kg	ND		0.3		ND		ND	
Dibenzo(a,h)anthracene	0.33	1000	0.56	mg/kg	ND		**0.51**		0.048	J	ND	
Dibenzofuran	7	210	350	mg/kg	ND		0.36		0.03	J	ND	
Diethyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dimethyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Fluoranthene	100	1000	500	mg/kg	ND		7.6	E	0.74		0.022	J
Fluorene	30	386	500	mg/kg	ND		0.5		0.038	J	ND	
Hexachlorobenzene	0.33	3.2	6	mg/kg	ND		ND		ND		ND	

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Hexachlorocyclopentadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Hexachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6	mg/kg	ND		**2.6**		0.21		ND	
Isophorone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Naphthalene	12	12	500	mg/kg	0.04	J	0.49		0.037	J	ND	
NDPA/DPA	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Nitrobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chloro-m-cresol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Pentachlorophenol	0.8	0.8	6.7	mg/kg	ND		ND		ND		ND	
Phenanthrene	100	1000	500	mg/kg	ND		5.3		0.58		ND	
Phenol	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
Pyrene	100	1000	500	mg/kg	ND		6.1		0.75		0.026	J

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)	SB-10 (2-4)	SB-4 (3-5)	SB-11 (3-5)
SAMPLING DATE					5/11/2023	5/11/2023	5/11/2023	5/11/2023
LAB SAMPLE ID					L2326314-05	L2326314-06	L2326314-07	L2326314-08
					Qual	Qual	Qual	Qual
Semviolatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND	ND	ND	ND
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND	ND	ND	ND
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND	ND	ND	ND
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND	ND	ND	ND
1,4-Dioxane	0.1	0.1	130	mg/kg	ND	ND	ND	ND
2,4,5-Trichlorophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
2,4,6-Trichlorophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
2,4-Dichlorophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
2,4-Dimethylphenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
2,4-Dinitrophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	NS	NS	mg/kg	ND	ND	ND	ND
2,6-Dinitrotoluene	NS	NS	NS	mg/kg	ND	ND	ND	ND
2-Chloronaphthalene	NS	NS	NS	mg/kg	ND	ND	ND	ND
2-Chlorophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
2-Methylnaphthalene	NS	NS	NS	mg/kg	ND	ND	ND	ND
2-Methylphenol	0.33	0.33	500	mg/kg	ND	ND	ND	ND
2-Nitroaniline	NS	NS	NS	mg/kg	ND	ND	ND	ND
2-Nitrophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	NS	NS	mg/kg	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	0.33	0.33	500	mg/kg	ND	ND	ND	ND
3-Nitroaniline	NS	NS	NS	mg/kg	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NS	NS	NS	mg/kg	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	NS	NS	mg/kg	ND	ND	ND	ND
4-Chloroaniline	NS	NS	NS	mg/kg	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	NS	NS	mg/kg	ND	ND	ND	ND
4-Nitroaniline	NS	NS	NS	mg/kg	ND	ND	ND	ND
4-Nitrophenol	NS	NS	NS	mg/kg	ND	ND	ND	ND

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)		SB-10 (2-4)		SB-4 (3-5)		SB-11 (3-5)	
SAMPLING DATE					5/11/2023		5/11/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-05		L2326314-06		L2326314-07		L2326314-08	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
Acenaphthene	20	98	500	mg/kg	ND		ND		ND		ND	
Acenaphthylene	100	107	500	mg/kg	ND		ND		ND		ND	
Acetophenone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Anthracene	100	1000	500	mg/kg	ND		ND		ND		ND	
Benzo(a)anthracene	1	1	5.6	mg/kg	0.024	J	0.13		0.055	J	0.056	J
Benzo(a)pyrene	1	22	1	mg/kg	ND		0.16		0.055	J	0.055	J
Benzo(b)fluoranthene	1	1.7	5.6	mg/kg	ND		0.19		0.068	J	0.066	J
Benzo(ghi)perylene	100	1000	500	mg/kg	ND		0.12	J	0.046	J	0.033	J
Benzo(k)fluoranthene	0.8	1.7	56	mg/kg	ND		0.072	J	ND		ND	
Benzoic Acid	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzyl Alcohol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Biphenyl	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroethoxy)methane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroethyl)ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Butyl benzyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Carbazole	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Chrysene	1	1	56	mg/kg	0.024	J	0.16		0.06	J	0.06	J
Di-n-butylphthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Di-n-octylphthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibenzo(a,h)anthracene	0.33	1000	0.56	mg/kg	ND		0.027	J	ND		ND	
Dibenzofuran	7	210	350	mg/kg	ND		ND		ND		ND	
Diethyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dimethyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Fluoranthene	100	1000	500	mg/kg	0.05	J	0.26		0.094	J	0.094	J
Fluorene	30	386	500	mg/kg	ND		ND		ND		ND	
Hexachlorobenzene	0.33	3.2	6	mg/kg	ND		ND		ND		ND	

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-9 (2-4)		SB-10 (2-4)		SB-4 (3-5)		SB-11 (3-5)	
SAMPLING DATE					5/11/2023		5/11/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-05		L2326314-06		L2326314-07		L2326314-08	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Hexachlorocyclopentadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Hexachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6	mg/kg	ND		0.12	J	0.042	J	0.038	J
Isophorone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Naphthalene	12	12	500	mg/kg	ND		ND		ND		0.044	J
NDPA/DPA	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Nitrobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chloro-m-cresol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Pentachlorophenol	0.8	0.8	6.7	mg/kg	ND		ND		ND		ND	
Phenanthrene	100	1000	500	mg/kg	0.04	J	0.14		0.064	J	0.041	J
Phenol	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
Pyrene	100	1000	500	mg/kg	0.048	J	0.24		0.088	J	0.09	J

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)	
SAMPLING DATE					5/12/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-09		L2326314-13		L2326314-14		L2326314-15	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND		ND		ND		ND	
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND		ND		ND		ND	
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND		ND		ND		ND	
1,4-Dioxane	0.1	0.1	130	mg/kg	ND		ND		ND		ND	
2,4,5-Trichlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4,6-Trichlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dichlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dimethylphenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dinitrophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,4-Dinitrotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2,6-Dinitrotoluene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Chloronaphthalene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Chlorophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Methylnaphthalene	NS	NS	NS	mg/kg	0.17	J	ND		ND		ND	
2-Methylphenol	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
2-Nitroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
2-Nitrophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
3,3'-Dichlorobenzidine	NS	NS	NS	mg/kg	ND		ND		ND		ND	
3-Methylphenol/4-Methylphenol	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
3-Nitroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4,6-Dinitro-o-cresol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Bromophenyl phenyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Chloroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Nitroaniline	NS	NS	NS	mg/kg	ND		ND		ND		ND	
4-Nitrophenol	NS	NS	NS	mg/kg	ND		ND		ND		ND	

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)	
SAMPLING DATE					5/12/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-09		L2326314-13		L2326314-14		L2326314-15	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
Acenaphthene	20	98	500	mg/kg	ND		ND		ND		ND	
Acenaphthylene	100	107	500	mg/kg	0.2	J	ND		ND		ND	
Acetophenone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Anthracene	100	1000	500	mg/kg	0.34	J	ND		ND		ND	
Benzo(a)anthracene	1	1	5.6	mg/kg	**1.6**		0.031	J	0.039	J	0.12	
Benzo(a)pyrene	1	22	1	mg/kg	0.85		ND		ND		0.097	J
Benzo(b)fluoranthene	1	1.7	5.6	mg/kg	**1.4**		ND		0.042	J	0.13	
Benzo(ghi)perylene	100	1000	500	mg/kg	1.2		ND		ND		0.05	J
Benzo(k)fluoranthene	0.8	1.7	56	mg/kg	**0.85**		ND		ND		0.042	J
Benzoic Acid	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Benzyl Alcohol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Biphenyl	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroethoxy)methane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroethyl)ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Butyl benzyl phthalate	NS	NS	NS	mg/kg	3.7		ND		ND		ND	
Carbazole	NS	NS	NS	mg/kg	0.14	J	ND		ND		ND	
Chrysene	1	1	56	mg/kg	**1.5**		0.026	J	0.042	J	0.12	
Di-n-butylphthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Di-n-octylphthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dibenzo(a,h)anthracene	0.33	1000	0.56	mg/kg	ND		ND		ND		ND	
Dibenzofuran	7	210	350	mg/kg	ND		ND		ND		ND	
Diethyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Dimethyl phthalate	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Fluoranthene	100	1000	500	mg/kg	3		ND		0.072	J	0.26	
Fluorene	30	386	500	mg/kg	0.084	J	ND		ND		ND	
Hexachlorobenzene	0.33	3.2	6	mg/kg	ND		ND		ND		ND	

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)	
SAMPLING DATE					5/12/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-09		L2326314-13		L2326314-14		L2326314-15	
						Qual		Qual		Qual		Qual
Semviolatile Organic Compounds												
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Hexachlorocyclopentadiene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Hexachloroethane	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6	mg/kg	**0.78**		ND		ND		0.056	J
Isophorone	NS	NS	NS	mg/kg	ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Naphthalene	12	12	500	mg/kg	0.13	J	ND		ND		ND	
NDPA/DPA	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Nitrobenzene	NS	NS	NS	mg/kg	ND		ND		ND		ND	
p-Chloro-m-cresol	NS	NS	NS	mg/kg	ND		ND		ND		ND	
Pentachlorophenol	0.8	0.8	6.7	mg/kg	ND		ND		ND		ND	
Phenanthrene	100	1000	500	mg/kg	1.4		ND		0.046	J	0.18	
Phenol	0.33	0.33	500	mg/kg	ND		ND		ND		ND	
Pyrene	100	1000	500	mg/kg	2.8		0.022	J	0.069	J	0.21	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)
SAMPLING DATE					5/15/2023
LAB SAMPLE ID					L2326314-16
					Qual
Semviolatile Organic Compounds					
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	mg/kg	ND
1,2,4-Trichlorobenzene	NS	NS	NS	mg/kg	ND
1,2-Dichlorobenzene	1.1	1.1	500	mg/kg	ND
1,3-Dichlorobenzene	2.4	2.4	280	mg/kg	ND
1,4-Dichlorobenzene	1.8	1.8	130	mg/kg	ND
1,4-Dioxane	0.1	0.1	130	mg/kg	ND
2,4,5-Trichlorophenol	NS	NS	NS	mg/kg	ND
2,4,6-Trichlorophenol	NS	NS	NS	mg/kg	ND
2,4-Dichlorophenol	NS	NS	NS	mg/kg	ND
2,4-Dimethylphenol	NS	NS	NS	mg/kg	ND
2,4-Dinitrophenol	NS	NS	NS	mg/kg	ND
2,4-Dinitrotoluene	NS	NS	NS	mg/kg	ND
2,6-Dinitrotoluene	NS	NS	NS	mg/kg	ND
2-Chloronaphthalene	NS	NS	NS	mg/kg	ND
2-Chlorophenol	NS	NS	NS	mg/kg	ND
2-Methylnaphthalene	NS	NS	NS	mg/kg	ND
2-Methylphenol	0.33	0.33	500	mg/kg	ND
2-Nitroaniline	NS	NS	NS	mg/kg	ND
2-Nitrophenol	NS	NS	NS	mg/kg	ND
3,3'-Dichlorobenzidine	NS	NS	NS	mg/kg	ND
3-Methylphenol/4-Methylphenol	0.33	0.33	500	mg/kg	ND
3-Nitroaniline	NS	NS	NS	mg/kg	ND
4,6-Dinitro-o-cresol	NS	NS	NS	mg/kg	ND
4-Bromophenyl phenyl ether	NS	NS	NS	mg/kg	ND
4-Chloroaniline	NS	NS	NS	mg/kg	ND
4-Chlorophenyl phenyl ether	NS	NS	NS	mg/kg	ND
4-Nitroaniline	NS	NS	NS	mg/kg	ND
4-Nitrophenol	NS	NS	NS	mg/kg	ND

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)	
SAMPLING DATE					5/15/2023	
LAB SAMPLE ID					L2326314-16	
						Qual
Semviolatile Organic Compounds						
Acenaphthene	20	98	500	mg/kg	ND	
Acenaphthylene	100	107	500	mg/kg	ND	
Acetophenone	NS	NS	NS	mg/kg	ND	
Anthracene	100	1000	500	mg/kg	ND	
Benzo(a)anthracene	1	1	5.6	mg/kg	0.1	J
Benzo(a)pyrene	1	22	1	mg/kg	0.11	J
Benzo(b)fluoranthene	1	1.7	5.6	mg/kg	0.14	
Benzo(ghi)perylene	100	1000	500	mg/kg	0.055	J
Benzo(k)fluoranthene	0.8	1.7	56	mg/kg	0.044	J
Benzoic Acid	NS	NS	NS	mg/kg	ND	
Benzyl Alcohol	NS	NS	NS	mg/kg	ND	
Biphenyl	NS	NS	NS	mg/kg	ND	
Bis(2-chloroethoxy)methane	NS	NS	NS	mg/kg	ND	
Bis(2-chloroethyl)ether	NS	NS	NS	mg/kg	ND	
Bis(2-chloroisopropyl)ether	NS	NS	NS	mg/kg	ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	mg/kg	ND	
Butyl benzyl phthalate	NS	NS	NS	mg/kg	ND	
Carbazole	NS	NS	NS	mg/kg	ND	
Chrysene	1	1	56	mg/kg	0.1	J
Di-n-butylphthalate	NS	NS	NS	mg/kg	ND	
Di-n-octylphthalate	NS	NS	NS	mg/kg	ND	
Dibenzo(a,h)anthracene	0.33	1000	0.56	mg/kg	ND	
Dibenzofuran	7	210	350	mg/kg	ND	
Diethyl phthalate	NS	NS	NS	mg/kg	ND	
Dimethyl phthalate	NS	NS	NS	mg/kg	ND	
Fluoranthene	100	1000	500	mg/kg	0.13	
Fluorene	30	386	500	mg/kg	ND	
Hexachlorobenzene	0.33	3.2	6	mg/kg	ND	

Table 2b. Semivolatile Organic Compounds in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-6 (2-4)	
SAMPLING DATE					5/15/2023	
LAB SAMPLE ID					L2326314-16	
						Qual
Semviolatile Organic Compounds						
Hexachlorobutadiene	NS	NS	NS	mg/kg	ND	
Hexachlorocyclopentadiene	NS	NS	NS	mg/kg	ND	
Hexachloroethane	NS	NS	NS	mg/kg	ND	
Indeno(1,2,3-cd)pyrene	0.5	8.2	5.6	mg/kg	0.07	J
Isophorone	NS	NS	NS	mg/kg	ND	
n-Nitrosodi-n-propylamine	NS	NS	NS	mg/kg	ND	
Naphthalene	12	12	500	mg/kg	ND	
NDPA/DPA	NS	NS	NS	mg/kg	ND	
Nitrobenzene	NS	NS	NS	mg/kg	ND	
p-Chloro-m-cresol	NS	NS	NS	mg/kg	ND	
Pentachlorophenol	0.8	0.8	6.7	mg/kg	ND	
Phenanthrene	100	1000	500	mg/kg	0.036	J
Phenol	0.33	0.33	500	mg/kg	ND	
Pyrene	100	1000	500	mg/kg	0.12	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2c. Metals in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)		SB-2 (3-5)		SB-3 (2-4)		SB-8 (1-3)		SB-9 (2-4)		SB-10 (2-4)		SB-4 (3-5)	
SAMPLING DATE					5/10/2023		5/10/2023		5/11/2023		5/11/2023		5/11/2023		5/11/2023		5/11/2023	
LAB SAMPLE ID					L2326314-01		L2326314-02		L2326314-03		L2326314-04		L2326314-05		L2326314-06		L2326314-07	
						Qual		Qual		Qual		Qual		Qual		Qual		Qual
Total Metals																		
Aluminum, Total	NS	NS	NS	mg/kg	8920		4120		6020		6780		6790		1300		239	
Antimony, Total	NS	NS	NS	mg/kg	ND		0.602	J	ND		0.862	J	ND		ND		14.7	
Arsenic, Total	13	16	16	mg/kg	3.8		5.4		4.03		10		2.37		**39.2**		4.67	
Barium, Total	350	820	400	mg/kg	40.6		347		29.5		41.8		39		49.6		70.2	
Beryllium, Total	7.2	47	590	mg/kg	0.249	J	0.122	J	0.14	J	0.218	J	0.245	J	ND		ND	
Cadmium, Total	2.5	7.5	9.3	mg/kg	ND		0.561	J	1.27		0.389	J	0.091	J	0.152	J	ND	
Calcium, Total	NS	NS	NS	mg/kg	647		12300		18800		7480		1460		5560		989	
Chromium, Total	NS	NS	NS	mg/kg	13.4		16.4		83.8		13.1		9.66		40.8		0.969	
Cobalt, Total	NS	NS	NS	mg/kg	6.5		9.72		5.18		4.91		5.08		0.956	J	0.765	J
Copper, Total	50	1720	270	mg/kg	7.12		**113**		9.83		**74.1**		7.56		**103**		2.29	
Iron, Total	NS	NS	NS	mg/kg	15200		11100		9490		14200		10500		16300		1220	
Lead, Total	63	450	1000	mg/kg	7.66		**431**		**357**		**956**		**153**		**230**		45.8	
Magnesium, Total	NS	NS	NS	mg/kg	1900		10400		2650		2940		1610		742		63.8	
Manganese, Total	1600	2000	10000	mg/kg	435		253		219		200		287		42.5		3.08	
Mercury, Total	0.18	0.73	2.8	mg/kg	ND		**0.372**		0.063	J	**0.395**		ND		**0.528**		0.136	
Nickel, Total	30	130	310	mg/kg	10.9		**115**		10.7		13.5		9.2		1.71	J	1.74	J
Potassium, Total	NS	NS	NS	mg/kg	452		860		587		524		561		2810		135	J
Selenium, Total	3.9	4	1500	mg/kg	ND		0.292	J	0.52	J	1.46	J	ND		1.07	J	ND	
Silver, Total	2	8.3	1500	mg/kg	ND		ND		ND		ND		ND		ND		ND	
Sodium, Total	NS	NS	NS	mg/kg	148	J	212		123	J	113	J	70.5	J	365		49.6	J
Thallium, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND		ND		0.315	J	ND	
Vanadium, Total	NS	NS	NS	mg/kg	16.3		17.2		10.9		13.6		12.2		11.9		1.04	
Zinc, Total	109	2480	10000	mg/kg	30.2		**306**		**583**		**274**		47		29.7		1.91	J

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2c. Metals in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-11 (3-5)		SB-13 (4-6)		SB-5 (3-5)		SB-7 (2-4)		SB-12 (2-4)		SB-6 (2-4)	
SAMPLING DATE					5/11/2023		5/12/2023		5/15/2023		5/15/2023		5/15/2023		5/15/2023	
LAB SAMPLE ID					L2326314-08		L2326314-09		L2326314-13		L2326314-14		L2326314-15		L2326314-16	
						Qual		Qual		Qual		Qual		Qual		Qual
Total Metals																
Aluminum, Total	NS	NS	NS	mg/kg	429		3250		7310		7490		6690		6780	
Antimony, Total	NS	NS	NS	mg/kg	6.49		ND		ND		ND		ND		ND	
Arsenic, Total	13	16	16	mg/kg	13		7.26		3.32		4.94		5.07		4.57	
Barium, Total	350	820	400	mg/kg	86.6		73.5		32.8		47.1		39.6		44	
Beryllium, Total	7.2	47	590	mg/kg	ND		0.501		0.22	J	0.199	J	0.147	J	0.182	J
Cadmium, Total	2.5	7.5	9.3	mg/kg	ND		1.6		ND		0.159	J	0.12	J	0.113	J
Calcium, Total	NS	NS	NS	mg/kg	6040		29400		13100		17800		10700		12300	
Chromium, Total	NS	NS	NS	mg/kg	0.812	J	21.6		10.8		12.5		12.7		12.3	
Cobalt, Total	NS	NS	NS	mg/kg	0.66	J	6.96		5.18		5.77		5.96		6.09	
Copper, Total	50	1720	270	mg/kg	19		**184**		12.6		17.5		21.3		14.1	
Iron, Total	NS	NS	NS	mg/kg	514		23400		11900		12600		11900		11900	
Lead, Total	63	450	1000	mg/kg	**74.7**		**334**		46.6		52.7		43.6		**101**	
Magnesium, Total	NS	NS	NS	mg/kg	79.5		2320		6980		5430		6810		3550	
Manganese, Total	1600	2000	10000	mg/kg	3.62		231		279		302		266		231	
Mercury, Total	0.18	0.73	2.8	mg/kg	**0.89**		**0.641**		ND		0.118		**0.28**		**0.63**	
Nickel, Total	30	130	310	mg/kg	1.38	J	**33.9**		16		15		13		12.8	
Potassium, Total	NS	NS	NS	mg/kg	174	J	571		764		1090		995		967	
Selenium, Total	3.9	4	1500	mg/kg	0.612	J	0.79	J	ND		ND		0.419	J	ND	
Silver, Total	2	8.3	1500	mg/kg	ND		0.312	J	ND		ND		ND		ND	
Sodium, Total	NS	NS	NS	mg/kg	154	J	269		135	J	140	J	132	J	129	J
Thallium, Total	NS	NS	NS	mg/kg	ND		ND		ND		ND		ND		ND	
Vanadium, Total	NS	NS	NS	mg/kg	1.71		13.1		13.5		17.4		18.1		17.2	
Zinc, Total	109	2480	10000	mg/kg	14.8		**762**		29.1		48.8		67.4		40.8	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2d. Pesticides and Polychlorinated Biphenyls in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-1 (3-5)	SB-2 (3-5)	SB-3 (2-4)	SB-8 (1-3)	SB-9 (2-4)	SB-10 (2-4)	SB-4 (3-5)	SB-11 (3-5)	SB-13 (4-6)	SB-5 (3-5)
SAMPLING DATE					5/10/2023	5/10/2023	5/11/2023	5/11/2023	5/11/2023	5/11/2023	5/11/2023	5/11/2023	5/12/2023	5/15/2023
LAB SAMPLE ID					L2326314-01	L2326314-02	L2326314-03	L2326314-04	L2326314-05	L2326314-06	L2326314-07	L2326314-08	L2326314-09	L2326314-13
					Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual
Polychlorinated Biphenyls														
Aroclor 1016	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	**0.205**	ND
Aroclor 1260	0.1	3.2	1	mg/kg	ND	0.0174 J	ND	ND	ND	ND	ND	ND	**0.185**	ND
Aroclor 1262	0.1	3.2	1	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1268	0.1	3.2	1	mg/kg	ND	0.011 J	ND	ND	ND	ND	ND	ND	ND	ND
PCBs, Total	0.1	3.2	1	mg/kg	ND	0.0284 J	ND	ND	ND	ND	ND	ND	**0.39**	ND
Organochlorine Pesticides														
4,4'-DDD	0.0033	14	92	mg/kg	ND	0.000919 J	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	0.0033	17	62	mg/kg	ND	**0.00372**	ND	ND	ND	ND	ND	ND	0.00261	ND
4,4'-DDT	0.0033	136	47	mg/kg	ND	**0.0194**	ND	ND	ND	ND	ND	ND	**0.0222**	ND
Aldrin	0.005	0.19	0.68	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.02	0.02	3.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.036	0.09	3	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	NS	NS	NS	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.0619	ND
cis-Chlordane	0.094	2.9	24	mg/kg	ND	0.00258	ND	ND	ND	ND	ND	ND	0.00545	ND
Delta-BHC	0.04	0.25	500	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.005	0.1	1.4	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2.4	102	200	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2.4	102	200	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2.4	1000	200	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.014	0.06	89	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NS	NS	NS	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NS	NS	NS	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.042	0.38	15	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	NS	NS	NS	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.00193 J	ND
Lindane	0.1	0.1	9.2	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NS	NS	NS	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	NS	NS	NS	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-Chlordane	NS	NS	NS	mg/kg	ND	0.00272	ND	ND	ND	ND	ND	ND	0.0105	ND

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 2d. Pesticides and Polychlorinated Biphenyls in Soil
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

CLIENT SAMPLE ID	NY-UNRES	NY-PGW	NY-RESC	Units	SB-7 (2-4)	SB-12 (2-4)	SB-6 (2-4)
SAMPLING DATE					5/15/2023	5/15/2023	5/15/2023
LAB SAMPLE ID					L2326314-14	L2326314-15	L2326314-16
					Qual	Qual	Qual
Polychlorinated Biphenyls							
Aroclor 1016	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1221	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1232	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1242	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1248	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1254	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1260	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1262	0.1	3.2	1	mg/kg	ND	ND	ND
Aroclor 1268	0.1	3.2	1	mg/kg	ND	ND	ND
PCBs, Total	0.1	3.2	1	mg/kg	ND	ND	ND
Organochlorine Pesticides							
4,4'-DDD	0.0033	14	92	mg/kg	ND	ND	ND
4,4'-DDE	0.0033	17	62	mg/kg	ND	ND	ND
4,4'-DDT	0.0033	136	47	mg/kg	ND	ND	ND
Aldrin	0.005	0.19	0.68	mg/kg	ND	ND	ND
Alpha-BHC	0.02	0.02	3.4	mg/kg	ND	ND	ND
Beta-BHC	0.036	0.09	3	mg/kg	ND	ND	ND
Chlordane	NS	NS	NS	mg/kg	ND	ND	ND
cis-Chlordane	0.094	2.9	24	mg/kg	ND	ND	ND
Delta-BHC	0.04	0.25	500	mg/kg	ND	ND	ND
Dieldrin	0.005	0.1	1.4	mg/kg	ND	ND	ND
Endosulfan I	2.4	102	200	mg/kg	ND	ND	ND
Endosulfan II	2.4	102	200	mg/kg	ND	ND	ND
Endosulfan sulfate	2.4	1000	200	mg/kg	ND	ND	ND
Endrin	0.014	0.06	89	mg/kg	ND	ND	ND
Endrin aldehyde	NS	NS	NS	mg/kg	ND	ND	ND
Endrin ketone	NS	NS	NS	mg/kg	ND	ND	ND
Heptachlor	0.042	0.38	15	mg/kg	ND	ND	ND
Heptachlor epoxide	NS	NS	NS	mg/kg	ND	ND	ND
Lindane	0.1	0.1	9.2	mg/kg	ND	ND	ND
Methoxychlor	NS	NS	NS	mg/kg	ND	ND	ND
Toxaphene	NS	NS	NS	mg/kg	ND	ND	ND
trans-Chlordane	NS	NS	NS	mg/kg	ND	ND	ND

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-UNRES SCOs

Bold and shaded blue value indicates concentration exceeds NY-PGW SCOs

Bold and shaded orange value indicates concentration exceeds NY-RESC SCOs

NY-UNRES = 6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives

NY-PGW = 6 NYCRR Part 375 Restricted Protection of Groundwater Soil Cleanup Objectives

NY-RESC = 6 NYCRR Part 375 Restricted Commercial Use Soil Cleanup Objectives

J = Estimated value

ND = Not detected

NS = No standard

Table 3a. Volatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-3		TW-4		TW-5	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		1/25/2024		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2404457-04		L2327168-04		L2327168-05	
				Qual		Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds														
Methylene chloride	5	ug/l	ND		ND		ND		1.2	J	ND		ND	
1,1-Dichloroethane	5	ug/l	ND		ND		ND		ND		ND		ND	
Chloroform	7	ug/l	ND		ND		ND		ND		ND		0.94	J
Carbon tetrachloride	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2-Dichloropropane	1	ug/l	ND		ND		ND		ND		ND		ND	
Dibromochloromethane	50	ug/l	ND		ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	1	ug/l	ND		ND		ND		ND		ND		ND	
Tetrachloroethene	5	ug/l	**20**		**31**		**320**		**150**		**78**		**120**	
Chlorobenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
Trichlorofluoromethane	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2-Dichloroethane	0.6	ug/l	ND		ND		ND		ND		ND		ND	
1,1,1-Trichloroethane	5	ug/l	ND		ND		ND		ND		ND		ND	
Bromodichloromethane	50	ug/l	ND		ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	0.4	ug/l	ND		ND		ND		ND		ND		ND	
cis-1,3-Dichloropropene	0.4	ug/l	ND		ND		ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	ug/l	ND		ND		ND		ND		ND		ND	
1,1-Dichloropropene	5	ug/l	ND		ND		ND		ND		ND		ND	
Bromoform	50	ug/l	ND		ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	5	ug/l	ND		ND		ND		ND		ND		ND	
Benzene	1	ug/l	ND		ND		ND		ND		ND		ND	
Toluene	5	ug/l	ND		ND		ND		ND		ND		ND	
Ethylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
Chloromethane	NS	ug/l	ND		ND		ND		ND		ND		ND	
Bromomethane	5	ug/l	ND		ND		ND		ND		ND		ND	
Vinyl chloride	2	ug/l	ND		ND		ND		ND		ND		0.23	J
Chloroethane	5	ug/l	ND		ND		ND		ND		ND		ND	
1,1-Dichloroethene	5	ug/l	ND		ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene	5	ug/l	ND		ND		ND		ND		ND		ND	
Trichloroethene	5	ug/l	0.71		0.79		**15**		**7.7**		0.88		4	

Table 3a. Volatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-3		TW-4		TW-5	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		1/25/2024		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2404457-04		L2327168-04		L2327168-05	
				Qual		Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds														
1,2-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND		ND	
Methyl tert butyl ether	10	ug/l	ND		ND		ND		ND		ND		ND	
p/m-Xylene	5	ug/l	ND		ND		ND		ND		ND		ND	
o-Xylene	5	ug/l	ND		ND		ND		ND		ND		ND	
Xylenes, Total	NS	ug/l	ND		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	ug/l	ND		ND		**18**		**7.8**		ND		3.8	
1,2-Dichloroethene, Total	NS	ug/l	ND		ND		18		7.8		ND		3.8	
Dibromomethane	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2,3-Trichloropropane	0.04	ug/l	ND		ND		ND		ND		ND		ND	
Acrylonitrile	5	ug/l	ND		ND		ND		ND		ND		ND	
Styrene	5	ug/l	ND		ND		ND		ND		ND		ND	
Dichlorodifluoromethane	5	ug/l	ND		ND		ND		ND		ND		ND	
Acetone	50	ug/l	ND		ND		ND		ND		ND		ND	
Carbon disulfide	60	ug/l	ND		ND		ND		ND		ND		ND	
2-Butanone	50	ug/l	ND		ND		ND		ND		ND		ND	
Vinyl acetate	NS	ug/l	ND		ND		ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	ug/l	ND		ND		ND		ND		ND		ND	
2-Hexanone	50	ug/l	ND		ND		ND		ND		ND		ND	
Bromochloromethane	5	ug/l	ND		ND		ND		ND		ND		ND	
2,2-Dichloropropane	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2-Dibromoethane	0.0006	ug/l	ND		ND		ND		ND		ND		ND	
1,3-Dichloropropane	5	ug/l	ND		ND		ND		ND		ND		ND	
1,1,1,2-Tetrachloroethane	5	ug/l	ND		ND		ND		ND		ND		ND	
Bromobenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
n-Butylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
sec-Butylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
tert-Butylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	

Table 3a. Volatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-3		TW-4		TW-5	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		1/25/2024		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2404457-04		L2327168-04		L2327168-05	
				Qual		Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds														
o-Chlorotoluene	5	ug/l	ND		ND		ND		ND		ND		ND	
p-Chlorotoluene	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	0.04	ug/l	ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene	0.5	ug/l	ND		ND		ND		ND		ND		ND	
Isopropylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
p-Isopropyltoluene	5	ug/l	ND		ND		ND		ND		ND		ND	
Naphthalene	10	ug/l	1.4	J	5.8		ND		ND		ND		ND	
n-Propylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2,3-Trichlorobenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
1,4-Dioxane	NS	ug/l	ND		ND		ND		ND		ND		ND	
p-Diethylbenzene	NS	ug/l	ND		ND		ND		ND		ND		1.4	J
p-Ethyltoluene	NS	ug/l	ND		ND		ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	5	ug/l	ND		ND		ND		ND		ND		ND	
Ethyl ether	NS	ug/l	ND		ND		ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	5	ug/l	ND		ND		ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-AWQS

NY-AWQS = NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards

J = Estimated value

ND = Not detected

NS = No standard

Table 3a. Volatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-6		TW-7		TW-8		TW-9		TW-10	
SAMPLING DATE			5/17/2023		5/17/2023		1/25/2024		1/25/2024		1/25/2024	
LAB SAMPLE ID			L2327168-06		L2327168-07		L2404457-03		L2404457-01		L2404457-02	
				Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds												
Methylene chloride	5	ug/l	ND		ND		1.2	J	ND		ND	
1,1-Dichloroethane	5	ug/l	ND		ND		ND		ND		ND	
Chloroform	7	ug/l	ND		ND		ND		ND		1.5	J
Carbon tetrachloride	5	ug/l	ND		ND		ND		ND		ND	
1,2-Dichloropropane	1	ug/l	ND		ND		ND		ND		ND	
Dibromochloromethane	50	ug/l	ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	1	ug/l	ND		ND		ND		ND		ND	
Tetrachloroethene	5	ug/l	2.9		**13**		**110**		**200**		**16**	
Chlorobenzene	5	ug/l	ND		ND		ND		ND		ND	
Trichlorofluoromethane	5	ug/l	ND		ND		ND		ND		ND	
1,2-Dichloroethane	0.6	ug/l	ND		ND		ND		ND		ND	
1,1,1-Trichloroethane	5	ug/l	ND		ND		ND		ND		ND	
Bromodichloromethane	50	ug/l	ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	0.4	ug/l	ND		ND		ND		ND		ND	
cis-1,3-Dichloropropene	0.4	ug/l	ND		ND		ND		ND		ND	
1,3-Dichloropropene, Total	NS	ug/l	ND		ND		ND		ND		ND	
1,1-Dichloropropene	5	ug/l	ND		ND		ND		ND		ND	
Bromoform	50	ug/l	ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	5	ug/l	ND		ND		ND		ND		ND	
Benzene	1	ug/l	ND		ND		ND		ND		ND	
Toluene	5	ug/l	ND		ND		ND		ND		ND	
Ethylbenzene	5	ug/l	ND		ND		ND		ND		ND	
Chloromethane	NS	ug/l	ND		ND		ND		ND		ND	
Bromomethane	5	ug/l	ND		ND		ND		ND		ND	
Vinyl chloride	2	ug/l	ND		ND		ND		ND		**2.2**	
Chloroethane	5	ug/l	ND		ND		ND		ND		ND	
1,1-Dichloroethene	5	ug/l	ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene	5	ug/l	ND		ND		ND		ND		ND	
Trichloroethene	5	ug/l	ND		0.63		1.3		**8.4**		0.79	

Table 3a. Volatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-6		TW-7		TW-8		TW-9		TW-10	
SAMPLING DATE			5/17/2023		5/17/2023		1/25/2024		1/25/2024		1/25/2024	
LAB SAMPLE ID			L2327168-06		L2327168-07		L2404457-03		L2404457-01		L2404457-02	
				Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds												
1,2-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND	
Methyl tert butyl ether	10	ug/l	ND		ND		ND		ND		ND	
p/m-Xylene	5	ug/l	ND		ND		ND		ND		ND	
o-Xylene	5	ug/l	ND		ND		ND		ND		ND	
Xylenes, Total	NS	ug/l	ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	ug/l	ND		1	J	ND		**9.6**		**39**	
1,2-Dichloroethene, Total	NS	ug/l	ND		1	J	ND		9.6		39	
Dibromomethane	5	ug/l	ND		ND		ND		ND		ND	
1,2,3-Trichloropropane	0.04	ug/l	ND		ND		ND		ND		ND	
Acrylonitrile	5	ug/l	ND		ND		ND		ND		ND	
Styrene	5	ug/l	ND		ND		ND		ND		ND	
Dichlorodifluoromethane	5	ug/l	ND		ND		ND		ND		ND	
Acetone	50	ug/l	ND		ND		ND		ND		ND	
Carbon disulfide	60	ug/l	ND		ND		ND		ND		ND	
2-Butanone	50	ug/l	ND		ND		ND		ND		ND	
Vinyl acetate	NS	ug/l	ND		ND		ND		ND		ND	
4-Methyl-2-pentanone	NS	ug/l	ND		ND		ND		ND		ND	
2-Hexanone	50	ug/l	ND		ND		ND		ND		ND	
Bromochloromethane	5	ug/l	ND		ND		ND		ND		ND	
2,2-Dichloropropane	5	ug/l	ND		ND		ND		ND		ND	
1,2-Dibromoethane	0.0006	ug/l	ND		ND		ND		ND		ND	
1,3-Dichloropropane	5	ug/l	ND		ND		ND		ND		ND	
1,1,1,2-Tetrachloroethane	5	ug/l	ND		ND		ND		ND		ND	
Bromobenzene	5	ug/l	ND		ND		ND		ND		ND	
n-Butylbenzene	5	ug/l	1.4	J	ND		ND		ND		ND	
sec-Butylbenzene	5	ug/l	1.7	J	ND		ND		ND		ND	
tert-Butylbenzene	5	ug/l	ND		ND		ND		ND		ND	

Table 3a. Volatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-6		TW-7		TW-8		TW-9		TW-10	
SAMPLING DATE			5/17/2023		5/17/2023		1/25/2024		1/25/2024		1/25/2024	
LAB SAMPLE ID			L2327168-06		L2327168-07		L2404457-03		L2404457-01		L2404457-02	
				Qual		Qual		Qual		Qual		Qual
Volatile Organic Compounds												
o-Chlorotoluene	5	ug/l	ND		ND		ND		ND		ND	
p-Chlorotoluene	5	ug/l	ND		ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	0.04	ug/l	ND		ND		ND		ND		ND	
Hexachlorobutadiene	0.5	ug/l	ND		ND		ND		ND		ND	
Isopropylbenzene	5	ug/l	2.8		ND		ND		ND		ND	
p-Isopropyltoluene	5	ug/l	ND		ND		ND		ND		ND	
Naphthalene	10	ug/l	1.5	J	ND		ND		ND		ND	
n-Propylbenzene	5	ug/l	ND		ND		ND		ND		ND	
1,2,3-Trichlorobenzene	5	ug/l	ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	5	ug/l	ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	5	ug/l	ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	5	ug/l	ND		ND		ND		ND		ND	
1,4-Dioxane	NS	ug/l	ND		ND		ND		ND		ND	
p-Diethylbenzene	NS	ug/l	52		ND		ND		ND		ND	
p-Ethyltoluene	NS	ug/l	ND		ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	5	ug/l	**15**		ND		ND		ND		ND	
Ethyl ether	NS	ug/l	ND		ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	5	ug/l	ND		ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-AWQS

NY-AWQS = NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards

J = Estimated value

ND = Not detected

NS = No standard

Table 3b. Semivolatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-4		TW-5		TW-6		TW-7	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2327168-04		L2327168-05		L2327168-06		L2327168-07	
				Qual		Qual		Qual		Qual		Qual		Qual		Qual
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	1	ug/l	ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	3	ug/l	ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Isophorone	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	0.4	ug/l	ND		ND		ND		ND		ND		ND		ND	
NDPA/DPA	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Butyl benzyl phthalate	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Di-n-butylphthalate	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Di-n-octylphthalate	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Dimethyl phthalate	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Biphenyl	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	NS	ug/l	ND		0.82	J	ND		ND		ND		ND		ND	
1,2,4,5-Tetrachlorobenzene	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Acetophenone	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
p-Chloro-m-cresol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	1	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	10	ug/l	ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-o-cresol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	

Table 3b. Semivolatile Organic Compounds in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-4		TW-5		TW-6		TW-7	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2327168-04		L2327168-05		L2327168-06		L2327168-07	
				Qual		Qual		Qual		Qual		Qual		Qual		Qual
Semivolatile Organic Compounds																
Phenol	1	ug/l	ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
3-Methylphenol/4-Methylphenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Benzoic Acid	NS	ug/l	ND		ND		ND		ND		ND		9.7	J	10	J
Benzyl Alcohol	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Carbazole	NS	ug/l	ND		1.6	J	ND		ND		ND		ND		ND	
Acenaphthene	20	ug/l	ND		0.73		ND		ND		ND		0.19		ND	
2-Chloronaphthalene	10	ug/l	ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	50	ug/l	0.07	J	1.5		ND		0.11		ND		ND		0.1	
Hexachlorobutadiene	0.5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Naphthalene	10	ug/l	0.44		5.1		ND		ND		ND		0.13		0.46	
Benzo(a)anthracene	0.002	ug/l	**0.02**	**J**	**0.34**		**0.03**	**J**	**0.05**	**J**	**0.07**	**J**	ND		**0.04**	**J**
Benzo(a)pyrene	0	ug/l	ND		**0.29**		ND		ND		**0.08**	**J**	ND		ND	
Benzo(b)fluoranthene	0.002	ug/l	ND		**0.38**		ND		ND		**0.12**		ND		**0.03**	**J**
Benzo(k)fluoranthene	0.002	ug/l	ND		**0.14**		ND		ND		**0.06**	**J**	ND		**0.02**	**J**
Chrysene	0.002	ug/l	**0.02**	**J**	**0.31**		**0.02**	**J**	**0.05**	**J**	**0.08**	**J**	ND		**0.03**	**J**
Acenaphthylene	NS	ug/l	ND		ND		ND		ND		ND		0.11		ND	
Anthracene	50	ug/l	0.04	J	0.47		ND		0.06	J	ND		ND		ND	
Benzo(ghi)perylene	NS	ug/l	ND		0.18		ND		ND		0.08	J	ND		ND	
Fluorene	50	ug/l	ND		0.92		ND		ND		ND		0.49		ND	
Phenanthrene	50	ug/l	0.21		2.9		0.07	J	0.12		ND		ND		0.09	J
Dibenzo(a,h)anthracene	NS	ug/l	ND		0.09	J	ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	0.002	ug/l	ND		**0.19**		ND		ND		**0.08**	**J**	ND		ND	
Pyrene	50	ug/l	0.05	J	1.1		0.05	J	0.1		0.04	J	ND		0.09	J
2-Methylnaphthalene	NS	ug/l	ND		1.1		ND		ND		ND		ND		0.17	
Pentachlorophenol	1	ug/l	ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	0.04	ug/l	ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	5	ug/l	ND		ND		ND		ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-AWQS

NY-AWQS = NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards

J = Estimated value

ND = Not detected

NS = No standard

Table 3c. Total and Dissolved Metals in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-4		TW-5		TW-6		TW-7	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2327168-04		L2327168-05		L2327168-06		L2327168-07	
				Qual		Qual		Qual		Qual		Qual		Qual		Qual
Total Metals																
Aluminum, Total	NS	ug/l	1060		566		2100		460		1020		485		2560	
Antimony, Total	3	ug/l	ND		ND		ND		1.27	J	ND		ND		ND	
Arsenic, Total	25	ug/l	1.24		0.66		1.97		**31.37**		1.16		2.07		1.39	
Barium, Total	1000	ug/l	15.79		32.33		17.93		26.47		25.06		36.42		20.85	
Beryllium, Total	3	ug/l	ND		ND		0.12	J	ND		ND		ND		0.14	J
Cadmium, Total	5	ug/l	ND		0.07	J	ND		ND		0.17	J	ND		0.06	J
Calcium, Total	NS	ug/l	25500		58000		13300		38600		41700		130000		58900	
Chromium, Total	50	ug/l	3.45		7.47		5.01		1.47		3.58		1.15		5.65	
Cobalt, Total	NS	ug/l	1.33		1.07		3		0.3	J	3.02		0.41	J	1.75	
Copper, Total	200	ug/l	2.62		2.17		4.85		16.18		5.35		0.88	J	8.49	
Iron, Total	300	ug/l	**1920**		**914**		**4380**		**841**		**2090**		**3350**		**2590**	
Lead, Total	25	ug/l	1.72		14.8		16.71		**81.82**		5.51		1.46		7.66	
Magnesium, Total	35000	ug/l	2200		5700		1510		4820		6350		10600		4950	
Manganese, Total	300	ug/l	87.5		**519.3**		172.5		27.16		**891.4**		**926.9**		**434**	
Mercury, Total	0.7	ug/l	0.13	JB	ND		ND		0.27		ND		ND		ND	
Nickel, Total	100	ug/l	1.82	J	1.94	J	3.87		0.93	J	2.95		1.31	J	3.99	
Potassium, Total	NS	ug/l	6720		10800		6160		11000		9450		10400		3660	
Selenium, Total	10	ug/l	1.86	J	8.53		ND		8.54		**10.1**		ND		2.09	J
Silver, Total	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Sodium, Total	20000	ug/l	15300		**47000**		**70900**		11600		19700		**41000**		10800	
Thallium, Total	0.5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Vanadium, Total	NS	ug/l	2.37	J	ND		4.45	J	ND		2.51	J	ND		6.15	
Zinc, Total	2000	ug/l	5.39	J	11.87		13.85		7.48	J	10.39		ND		12.58	
Dissovled Metals																
Aluminum, Dissolved	NS	ug/l	6.57	J	9.42	J	38.9		4.48	J	4.74	J	11.9		108	
Antimony, Dissolved	3	ug/l	ND		ND		ND		1.39	J	ND		ND		ND	
Arsenic, Dissolved	25	ug/l	0.42	J	0.31	J	0.21	J	19.05		0.3	J	1.3		0.67	
Barium, Dissolved	1000	ug/l	9.8		18.57		6.73		12.42		12.08		20.04		7.16	
Beryllium, Dissolved	3	ug/l	ND		ND		ND		ND		ND		ND		ND	
Cadmium, Dissolved	5	ug/l	ND		ND		ND		ND		0.08	J	ND		ND	
Calcium, Dissolved	NS	ug/l	22200		55700		13100		36200		40700		120000		51600	
Chromium, Dissolved	50	ug/l	1.4		6.05		0.61	J	0.45	J	ND		ND		0.34	J
Cobalt, Dissolved	NS	ug/l	ND		0.34	J	0.16	J	ND		1.29		0.16	J	0.23	J
Copper, Dissolved	200	ug/l	ND		0.42	J	0.52	J	5.79		0.84	J	ND		1.03	
Iron, Dissolved	300	ug/l	ND		25.8	J	87		ND		ND		146		110	
Lead, Dissolved	25	ug/l	ND		0.96	J	ND		1.19		ND		ND		ND	
Magnesium, Dissolved	35000	ug/l	1740		5320		957		4290		5750		12700		4160	
Manganese, Dissolved	300	ug/l	27.05		**440.8**		21.84		14.9		**686.2**		**1235**		**339.6**	
Mercury, Dissolved	0.7	ug/l	ND		ND		ND		ND		ND		ND		ND	
Nickel, Dissolved	100	ug/l	ND		0.69	J	ND		0.58	J	1.03	J	0.64	J	0.57	J
Potassium, Dissolved	NS	ug/l	5950		10600		5870		10000		9410		9780		3230	
Selenium, Dissolved	10	ug/l	ND		7.37		ND		6.47		7.68		ND		ND	
Silver, Dissolved	50	ug/l	ND		ND		ND		ND		ND		ND		ND	
Sodium, Dissolved	20000	ug/l	16400		**52700**		**89600**		**20400**		**34900**		**61400**		13000	
Thallium, Dissolved	0.5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Vanadium, Dissolved	NS	ug/l	ND		ND		ND		ND		ND		ND		2.1	J
Zinc, Dissolved	2000	ug/l	ND		4.65	J	ND		ND		3.6	J	ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-AWQS

NY-AWQS = NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards

J = Estimated value

ND = Not detected

NS = No standard

B = Analyte found in sample and associated blank

Table 3d. Pesticides and Polychlorinated Biphenyls in Groundwater
127 12th Street - Brooklyn, NY
Phase II Environmental Site Investigation

LOCATION	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-4		TW-5		TW-6		TW-7	
SAMPLING DATE			5/16/2023		5/16/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023		5/17/2023	
LAB SAMPLE ID			L2327168-01		L2327168-02		L2327168-03		L2327168-04		L2327168-05		L2327168-06		L2327168-07	
				Qual		Qual		Qual		Qual		Qual		Qual		Qual
Pesticides																
Delta-BHC	0.04	ug/l	ND		ND		ND		ND		ND		ND		ND	
Lindane	0.05	ug/l	ND		ND		ND		ND		ND		ND		ND	
Alpha-BHC	0.01	ug/l	ND		ND		ND		ND		ND		ND		ND	
Beta-BHC	0.04	ug/l	ND		ND		ND		ND		ND		ND		ND	
Heptachlor	0.04	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aldrin	0	ug/l	ND		ND		ND		ND		ND		ND		ND	
Heptachlor epoxide	0.03	ug/l	ND		ND		ND		ND		ND		ND		ND	
Endrin	0	ug/l	ND		ND		ND		ND		ND		ND		ND	
Endrin aldehyde	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Endrin ketone	5	ug/l	ND		ND		ND		ND		ND		ND		ND	
Dieldrin	0.004	ug/l	ND		ND		ND		ND		ND		ND		ND	
4,4'-DDE	0.2	ug/l	ND		ND		ND		ND		ND		ND		ND	
4,4'-DDD	0.3	ug/l	ND		ND		ND		ND		ND		ND		ND	
4,4'-DDT	0.2	ug/l	ND		ND		ND		ND		ND		ND		ND	
Endosulfan I	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Endosulfan II	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Endosulfan sulfate	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Methoxychlor	35	ug/l	ND		ND		ND		ND		ND		ND		ND	
Toxaphene	0.06	ug/l	ND		ND		ND		ND		ND		ND		ND	
cis-Chlordane	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
trans-Chlordane	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	
Chlordane	0.05	ug/l	ND		ND		ND		ND		ND		ND		ND	
Polychlorinated Biphenyls																
Aroclor 1016	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1221	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1232	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1242	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1248	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1254	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1260	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1262	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
Aroclor 1268	0.09	ug/l	ND		ND		ND		ND		ND		ND		ND	
PCBs, Total	NS	ug/l	ND		ND		ND		ND		ND		ND		ND	

Notes:

Bold and shaded yellow value indicates concentration exceeds NY-AWQS

NY-AWQS = NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards

ND = Not detected

NS = No standard

Attachment 1
Monitoring Well Survey

MONITORING WELL LOCATION COORDINATES

MONITORING WELL LOCATION	ELEVATION (NAVD88) DECIMAL FT.	NORTHING (NAD 1983 StatePlane New York Long Island 3104) DECIMAL FT.	EASTING (NAD 1983 StatePlane New York Long Island 3104) DECIMAL FT.	LATITUDE	LONGITUDE	DATE SURVEYED
TW-3	13.21	183,460.89	986,131.67	40°40'12.8434"	-073°59'35.5808"	1/25/2024
TW-8	13.15	183,497.98	986,135.26	40°40'13.2099"	-073°59'35.5341"	1/25/2024
TW-9	13.08	183,451.01	986,091.65	40°40'12.7458"	-073°59'36.1001"	1/25/2024
TW-10	11.90	183,532.01	986,056.46	40°40'13.5462"	-073°59'36.5568"	1/26/2024

Map Amendments

NO.	DATE	DESCRIPTION	DRWN BY	APPROV. BY

Graphic Scale

−16 0 8 16 32

1 inch = 16 Feet

Legend of Symbols

Monitoring Well Location ..... TW- # #

Miscellaneous Notes

1. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
2. "COPIES FROM THE ORIGINAL OF THIS SURVEY MAP NOT MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL NOT BE CONSIDERED A VALID TRUE COPY."
3. BEFORE PERFORMING ANY EXCAVATION OR DRILLING ON THIS SITE, IT IS REQUIRED THAT SUBSURFACE SERVICE, INCLUDING THE UNDERGROUND MAINS, DUCTS, AND CABLES BE MARKED AND IDENTIFIED BY THE UTILITY COMPANY OR AGENCY INVOLVED, THIS SHOULD BE DONE BY PROVIDING THE AFFECTED UTILITY WITH THE NOTICE REFERRED TO IN THE STATE OF NEW YORK INDUSTRIAL CODE 53.
4. THE OFFSETS AND DIMENSIONS SHOWN FROM THE STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE AND THEREFORE ARE NOT INTENDED TO GUIDE THE ERECTION OF STRUCTURES AND ANY OTHER CONSTRUCTION.
5. SUBSURFACE INFORMATION HEREON HAS BEEN OBTAINED FROM NEW YORK CITY AGENCIES AND PRIVATE COMPANIES. THIS INFORMATION IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTORS SHALL, BEFORE COMMENCING EXCAVATION, NOTIFY THE APPROPRIATE DEPARTMENTS AND UTILITY COMPANIES OF THEIR PROPOSED WORK AND REQUEST THAT THE PARTICULAR UTILITY LINES BE MARKED BY THE AGENCY OR COMPANY HAVING JURISDICTION . (STATE OF NEW YORK INDUSTRIAL CODE 53)
6. THIS IS TO CERTIFY THAT THERE ARE NO STREAMS OR OTHER WATER COURSES ON OR IN THE PROPERTY EXCEPT AS SHOWN ON THE SURVEY MAP.
7. THE LEGAL GRADES SHOWN ON THIS MAP WERE TAKEN FROM THE BROOKLYN BOROUGH SECTIONAL / ALTERATION MAPS. LEGAL GRADES REFER TO TOP OF CURB.
8. ALL ELEVATIONS NOTED ON THIS SURVEY MAP ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS ESTABLISHED AND MAINTAINED BY THE NATIONAL GEODETIC SURVEY OF THE NATIONAL OCEAN SERVICE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OR SUCCESSOR AGENCY, WHICH IS HEREBY ESTABLISHED AS THE CITY DATUM BY LOCAL LAW 96 OF 2013.

nycls
New York City Land Surveyors, PC
63 Montgomery Avenue, S.I., NY 10301
Phone: 718-816-8182 Fax: 718-816-8124
www.nycsurveyors.com

Client: Tenan Environmental

Map of Survey of Property
in the
County of Kings
Borough of Brooklyn
City of New York

Site Address:
127 12th Street
Brooklyn, NY 11215

Block: 1020 Lot: 52

Project Number:	2024-03-1020K
Survey Date:	01-25-2024
Survey Title:	Monitoring Well Location Sheet
Scale:	1"=16'
Drawn By:	JD
Approved By:	P. Jones

Surveyors Seal:

Patrick Benedict Jones
New York State Licensed Land Surveyor
CERTIFIED BY: License No. 050624

Attachment 2
Soil Vapor Sampling Logs

TENEN ENVIRONMENTAL

Site:	**127 12th Street - Brooklyn, NY**
Weather:	**70s, Partly Cloudy**
Date:	**5/22/23**
Observers:	**V. Chang**

Sample ID	He (ppm)	PID (ppm)	Can ID	Flow ID	Initial Time	Final Time	Initial Pressure (in-Hg)	Final Pressure (in-Hg)
SV-1	0	83.2	234	1281	10:00	18:00	-30.24	-4.99
SV-2	150	1.8	2596	01282	10:00	18:00	-30.09	-5.35
SV-3	0	2.4	336	01624	10:00	18:00	-30.29	-5.40
SV-4	225	2.0	471	0541	10:00	18:00	-30.06	-6.32
SV-5	0	5.1	2276	0410	10:06	18:06	-30.68	-8.34
IA-1	N/A	N/A	461	01585	10:00	18:45	-30.74	-9.87
AA-1	N/A	N/A	239	0616	10:00	18:00	-29.96	-5.93

Notes:

ppm: parts per million

in-Hg: inches mercury

Attachment 3
Soil Boring and Well Construction Logs

TENEN ENVIRONMENTAL

		Boring No.	**SB-1 / TW-1**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Direct-Push Geoprobe
Date:	**5/10/23**	**Soil Sampling Method:**	5' Macrocore
Weather:	**60s, Fair**	**DTW:**	5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.0	38"	SB-1 (3-5')	1" PVC Riser (0-2')	**0'-0.5'** - Concrete **0.5'-2'** - FILL, Brown, fine to medium SAND, trace silt, gravel, clay, and brick fragments, moist **2'-5'** - Brown, fine SILT, some sand, trace clay and gravel, moist
2	0.0				
3					
4	0.0				
5					
6	0.0	49"		1" PVC Screen (2-15')	**5'-10'** - Brown, fine SAND, some silt, trace gravel, wet @ 5 ft-bg **End of Boring @ 10 ft-bg**
7	0.0				
8					
9	0.0				
10					
11					
12					
13					
14					
15					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL

		Boring No.	**SB-2 / TW-2**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Direct-Push Geoprobe
Date:	**5/10/23**	**Soil Sampling Method:**	5' Macrocore
Weather:	**60s, Fair**	**DTW:**	5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.0	27"		1" PVC Riser (0-2')	**0'-0.5'** - Concrete **0.5'-5'** - FILL, Brown, fine to coarse SAND, trace silt, gravel, coal, and brick fragments, moist
2					
3	0.0		SB-2 (3-5')		
4					
5	0.0				
6	0.0	30"		1" PVC Screen (2-15')	**5'-10'** - Brown, fine SAND, some silt, trace gravel, wet @ 5 ft-bg **End of Boring @ 10 ft-bg**
7					
8	0.0				
9					
10	0.0				
11					
12					
13					
14					
15					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL

		Boring No.	**SB-3 / TW-3**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/11/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Partly Cloudy**	**DTW:**	4.5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.0	17"		1" PVC Riser (0-2')	**0'-0.33'** - Concrete
2					**0.33'-3'** - FILL, Light brown, fine SAND with silt, gravel, coal, plastic, concrete, and brick fragments, moist
3	0.0		SB-3 (2-4')	1" PVC Screen (2-12')	
4	0.0	21"			**3'-4'** - FILL, Light brown, fine SAND with silt, gravel, coal, plastic, concrete, and brick fragments, moist
5					**4'-6'** - Brown, fine SAND, some silt, trace clay and gravel, wet @ 4.5 ft-bg
6	0.0				**End of Boring @ 6 ft-bg**
7					
8					
9					
10					
11					
12					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL

		Boring No.	**SB-4 / TW-4**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/11/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Partly Cloudy**	**DTW:**	5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.8	22"		1" PVC Riser (0-2')	**0'-0.33'** - Concrete
2					**0.33'-3'** - FILL, Dark brown to gray, fine to coarse SAND, trace silt, gravel, and coal, moist
3	1.8				
4	2.1	28"	SB-4 (3-5')	1" PVC Screen (2-12')	**3'-6'** - FILL, Gray, fine SAND, some silt, gravel, and coal, wet @ 5 ft-bg
5					**End of Boring @ 6 ft-bg**
6	0.0				
7					
8					
9					
10					
11					
12					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-5 / TW-5**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/15/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Fair**	**DTW:**	5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.0	26"		1" PVC Riser (0-2')	**0'-0.33'** - Concrete
2					**0.33'-1.33'** - FILL, Brown GRAVEL with fine to medim sand, trace silt and coal, moist
3	0.0				**1.33'-3'** - Brown, fine to medium SAND, some silt, trace gravel, moist
4	0.0	21"	SB-5 (3-5')	1" PVC Screen (2-12')	**3'-6'** - Brown, fine to medium SAND, some silt, trace gravel, wet @ 5 ft-bg
5					**End of Boring @ 6 ft-bg**
6	0.0				
7					
8					
9					
10					
11					
12					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-6 / TW-6**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/15/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Fair**	**DTW:**	4'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.0	19"		1" PVC Riser (0-2')	**0'-0.33'** - Concrete
2	0.0		SB-6 (2-4')	1" PVC Screen (2-12')	**0.33'-3'** - FILL, Dark brown, fine to coarse SAND with silt, gravel, concrete, and brick fragments, moist
3					
4	0.0	20"			**3'-6'** - Brown, fine to medium SAND, some silt, trace clay and gravel, wet @ 4 ft-bg
5	0.0				**End of Boring @ 6 ft-bg**
6					
7					
8					
9					
10					
11					
12					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-7 / TW-7**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/15/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Fair**	**DTW:**	4'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Well Construction	Soil Description
1	0.0	24"		1" PVC Riser (0-2')	**0'-0.33'** - Concrete
2					**0.33'-1.2'** - FILL, Dark brown, fine to coarse SAND with silt, gravel, and brick fragments, moist
3	0.0		SB-7 (2-4')	1" PVC Screen (2-12')	**1.2'-3'** - Brown, fine to medium SAND, some silt, trace clay and gravel, moist
4	0.0	13"			**3'-6'** - Brown, fine to medium SAND, some silt, trace clay and gravel, wet @ 4 ft-bg
5					**End of Boring @ 6 ft-bg**
6	0.0				
7					
8					
9					
10					
11					
12					

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-8**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/11/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Partly Cloudy**	**DTW:**	5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Soil Description
1	1.3	20"	SB-8 (1-3')	**0'-0.33'** - Concrete
2	1.8			**0.33'-1.83'** - FILL, Dark brown, fine to coarse SAND with silt, gravel, coal, and brick fragments, moist
3				**1.83'-3'** - Brown, fine to medium SAND, some silt, trace gravel, moist
4	0.0	26"		**3'-6'** - Brown, fine to medium SAND, some silt, trace gravel, wet @ 5 ft-bg
5	0.0			**End of Boring @ 6 ft-bg**
6				
7				
8				
9				

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-9**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/11/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Partly Cloudy**	**DTW:**	4.5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Soil Description
1	0.0	26"		**0'-0.33'** - Concrete
2	0.0		SB-9 (2-4')	**0.33'-1'** - FILL, Dark brown, fine to medium SAND with silt, gravel, coal, glass and brick fragments, moist
3				**1'-3'** - Brown, fine SAND, some silt, traceclay and gravel, moist
4	0.0	27"		**3'-6'** - Brown, fine to coarse SAND, some silt, trace clay and gravel, wet @ 4.5 ft-bg
5	0.0			**End of Boring @ 6 ft-bg**
6				
7				
8				
9				

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-10**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/11/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Partly Cloudy**	**DTW:**	4.5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Soil Description
1	0.0	26"		**0'-0.33'** - Concrete
2				**0.33'-3'** - FILL, Dark brown, fine to coarse SAND with silt, gravel, coal, and brick fragments, moist
3	0.0		SB-10 (2-4')	
4	0.0	29"		**3'-6'** - Grayish-brown, fine to medium SAND, some silt, trace clay and gravel, wet @ 4.5 ft-bg
5				**End of Boring @ 6 ft-bg**
6	0.0			
7				
8				
9				

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		Boring No.	SB-11
		Sheet	1 of 1
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/11/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Partly Cloudy**	**DTW:**	5'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Soil Description
1	0.0	22"		**0'-0.33'** - Concrete
2	0.0			**0.33'-3'** - FILL, GRAVEL with dark brown medium sand, some silt, coal, and brick fragments, moist
3				
4	0.0	32"	SB-11 (3-5')	**3'-6'** - FILL, Gray, fine to medium SAND, some silt, trace gravel and coal, wet @ 5 ft-bg
5	0.0			**End of Boring @ 6 ft-bg**
6				
7				
8				
9				

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-12**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/15/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**70s, Fair**	**DTW:**	4'
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Soil Description
1	0.0	25"		**0'-0.33'** - Concrete
2				**0.33'-1.33'** - FILL, Dark brown, fine to coarse SAND with silt, gravel, coal, and brick fragments, moist
3	0.0		SB-12 (2-4')	**1.33'-3'** - Brown, fine to medium SAND, some silt, trace clay and gravel, moist
4	0.0	17"		**3'-6'** - Brown, fine to medium SAND, some silt, trace gravel, wet @ 4 ft-bg
5				**End of Boring @ 6 ft-bg**
6	0.0			
7				
8				
9				

Notes:

Legend:

DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL		**Boring No.**	**SB-13**
		Sheet	**1 of 1**
Site:	**127 12th Street - Brooklyn, NY**	**Drilling Method:**	Limited Access Geoprobe
Date:	**5/12/23**	**Soil Sampling Method:**	3' Macrocore
Weather:	**80s, Cloudy**	**DTW:**	N/A
Observer:	**V. Chang**	**Driller :**	AARCO Environmental

Depth (feet)	PID Reading (ppm)	Soil Recovery	Soil Samples	Soil Description
1 2 3		0"		**0'-0.33'** - Concrete **0.33'-3'** - No Recovery
4 5 6		0"		**3'-6'** - No Recovery
7 8 9		0"		**6'-9'** - No Recovery **End of Boring @ 9 ft-bg**

Notes: Three slabs at this location, refusal encountered on second slab.

Legend:

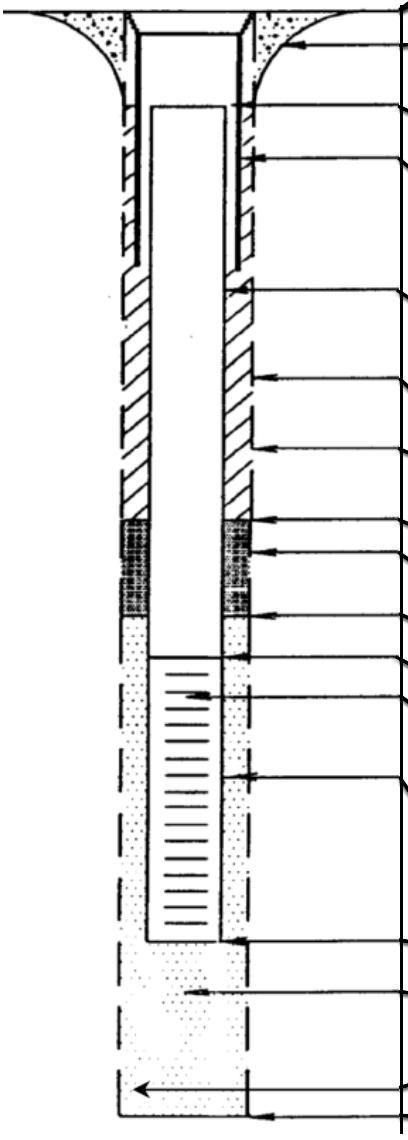
DTW - Depth to Water
EOB - End of Boring
ft-bg - Feet Below Grade
SM - Silty Sand
SW - Well-graded Sand
GW - Groundwater
PID - Photoionization Detector
SAA - Same as Above
NR - Not Recorded
SP - Poorly Graded Sand
GP - Poorly Graded Gravel

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-1**
Field Engineer:	V. Chang	Date Started:	5/10/23
Driller:	AARCO	Date Completed:	5/10/23
Drilling Method:	Direct-Push Track-Mounted Geoprobe	Elevation Datum:	N/A
Development Method:	Peristaltic Pump	Weather:	Fair, 60s
Sump Installed? (Y/N)	N Sump Length (Ft): N/A	Boring Number:	SB-1



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	N/A
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	13
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	15
Depth of Bottom of Filter Pack (ft-bsg)	15
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	15
Elevation of Bottom of Hole	N/A

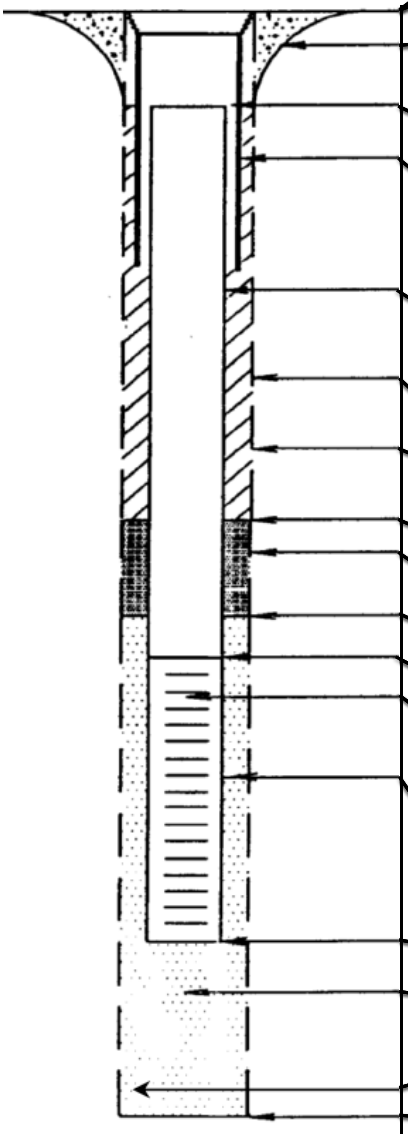
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-2**
Field Engineer:	V. Chang	Date Started:	5/10/23
Driller:	AARCO	Date Completed:	5/10/23
Drilling Method:	Direct-Push Track-Mounted Geoprobe	Elevation Datum:	N/A
Development Method:	Peristaltic Pump	Weather:	Fair, 60s
Sump Installed? (Y/N)	N Sump Length (Ft): N/A	Boring Number:	SB-2



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	N/A
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	13
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	15
Depth of Bottom of Filter Pack (ft-bsg)	15
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	15
Elevation of Bottom of Hole	N/A

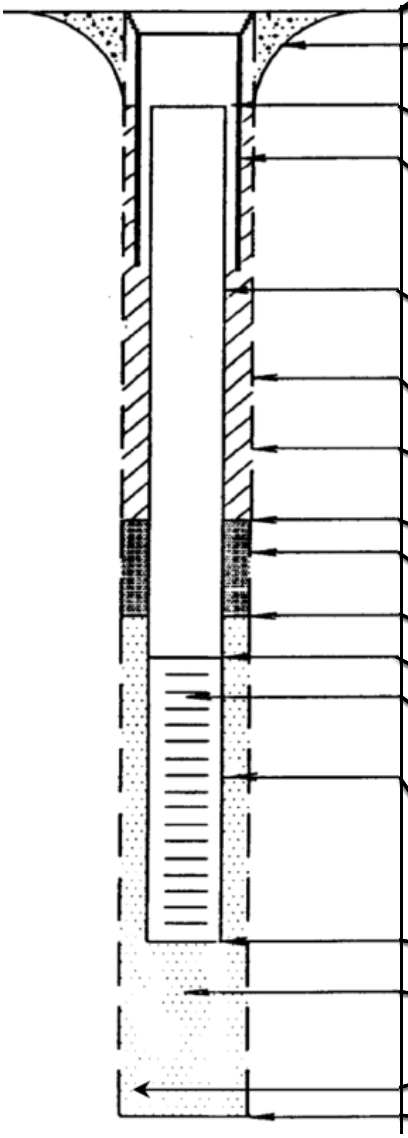
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-3**
Field Engineer:	V. Chang	Date Started:	5/11/23
Driller:	AARCO	Date Completed:	5/11/23
Drilling Method:	Direct-Push Limited Access Geoprobe	Elevation Datum:	NAVD88
Development Method:	Peristaltic Pump	Weather:	Partly Cloudy, 70s
Sump Installed? (Y/N)	N	Boring Number:	SB-3
Sump Length (Ft):	N/A		



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	13.21
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	10
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	12
Depth of Bottom of Filter Pack (ft-bsg)	12
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	12
Elevation of Bottom of Hole	N/A

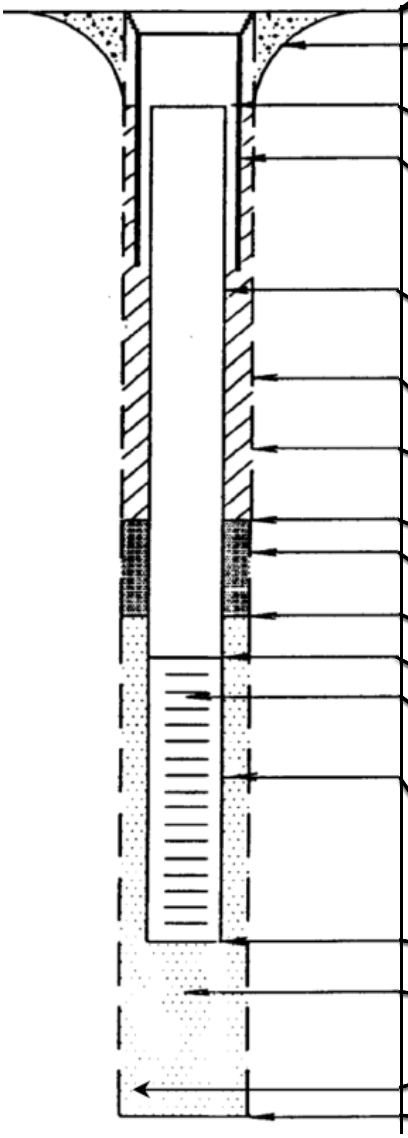
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-4**
Field Engineer:	V. Chang	Date Started:	5/11/23
Driller:	AARCO	Date Completed:	5/11/23
Drilling Method:	Direct-Push Limited Access Geoprobe	Elevation Datum:	N/A
Development Method:	Peristaltic Pump	Weather:	Partly Cloudy, 70s
Sump Installed? (Y/N)	N	Boring Number:	SB-4
Sump Length (Ft):	N/A		



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	N/A
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	10
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	12
Depth of Bottom of Filter Pack (ft-bsg)	12
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	12
Elevation of Bottom of Hole	N/A

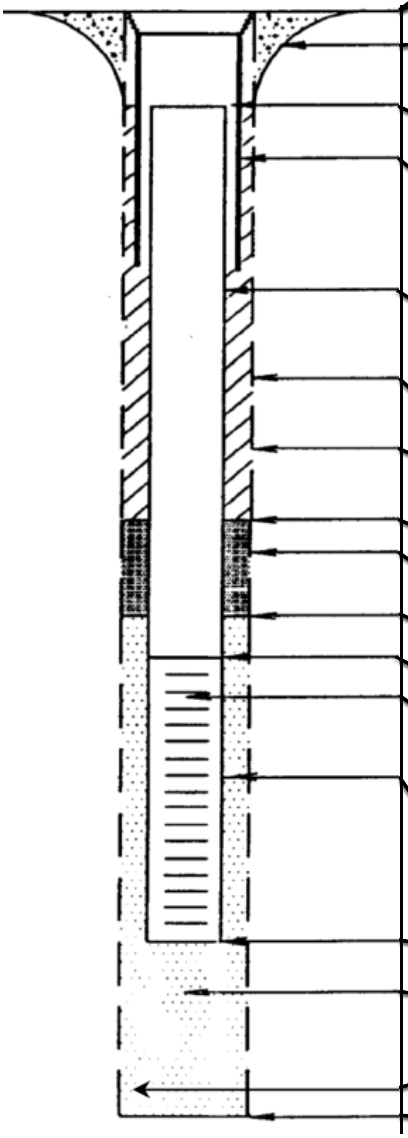
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-5**
Field Engineer:	V. Chang	Date Started:	5/15/23
Driller:	AARCO	Date Completed:	5/15/23
Drilling Method:	Direct-Push Limited Access Geoprobe	Elevation Datum:	N/A
Development Method:	Peristaltic Pump	Weather:	Fair, 70s
Sump Installed? (Y/N)	N Sump Length (Ft): N/A	Boring Number:	SB-5



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	N/A
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	10
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	12
Depth of Bottom of Filter Pack (ft-bsg)	12
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	12
Elevation of Bottom of Hole	N/A

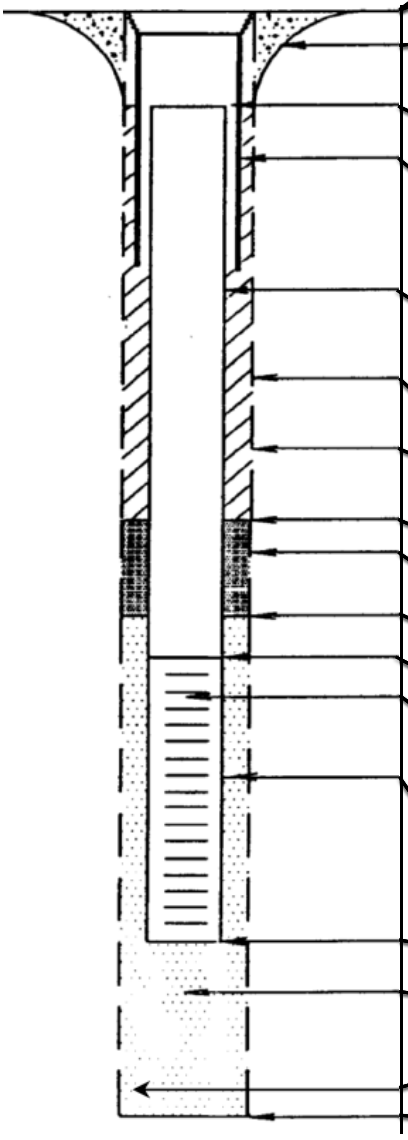
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-6**
Field Engineer:	V. Chang	Date Started:	5/15/23
Driller:	AARCO	Date Completed:	5/15/23
Drilling Method:	Direct-Push Limited Access Geoprobe	Elevation Datum:	N/A
Development Method:	Peristaltic Pump	Weather:	Fair, 70s
Sump Installed? (Y/N)	N	Boring Number:	SB-6
Sump Length (Ft):	N/A		



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	N/A
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	10
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	12
Depth of Bottom of Filter Pack (ft-bsg)	12
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	12
Elevation of Bottom of Hole	N/A

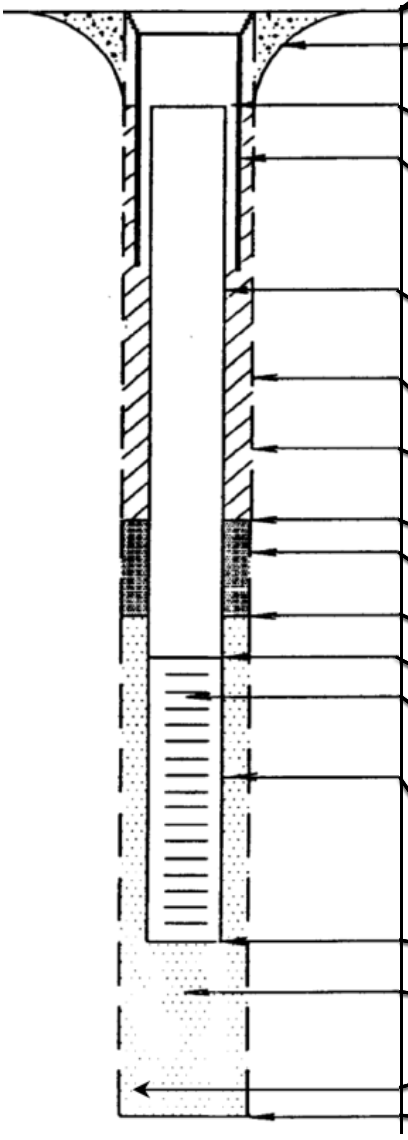
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-7**
Field Engineer:	V. Chang	Date Started:	5/15/23
Driller:	AARCO	Date Completed:	5/15/23
Drilling Method:	Direct-Push Limited Access Geoprobe	Elevation Datum:	N/A
Development Method:	Peristaltic Pump	Weather:	Fair, 70s
Sump Installed? (Y/N)	N Sump Length (Ft): N/A	Boring Number:	SB-7



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	N/A
I.D. of Surface Casing (in)	3
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	1
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	3
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	0
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	2
Depth of Top of Screen (ft-bsg)	2
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	1
Slot Size of Screen (in)	0.02
Length of Screen (ft)	10
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	12
Depth of Bottom of Filter Pack (ft-bsg)	12
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	12
Elevation of Bottom of Hole	N/A

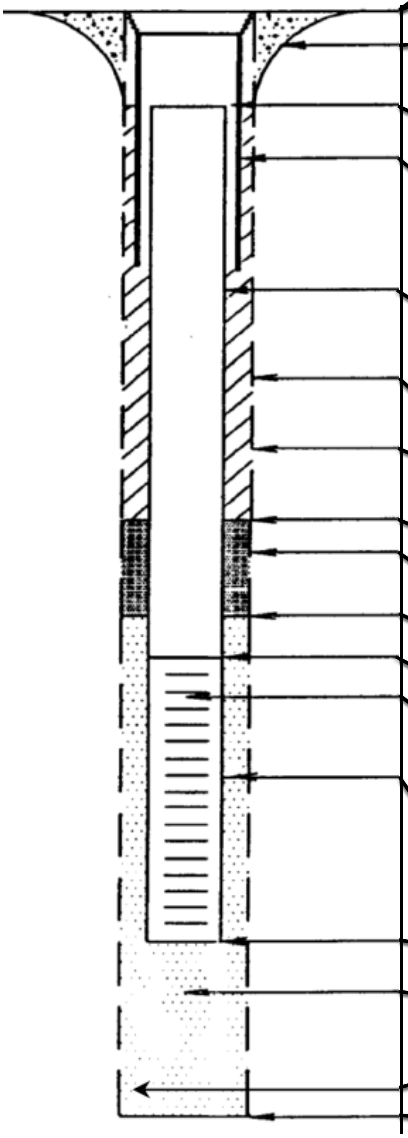
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-8**
Field Engineer:	M. Accetturi	Date Started:	1/23/24
Driller:	Coastal Environmental	Date Completed:	1/23/24
Drilling Method:	Direct-Push Track-Mounted Geoprobe	Elevation Datum:	NAVD88
Development Method:	Peristaltic Pump	Weather:	Overcast/Rain, 30s
Sump Installed? (Y/N)	N	Boring Number:	N/A
Sump Length (Ft):	N/A		



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	13.15
I.D. of Surface Casing (in)	4
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	2
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	4
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	1
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	3
Depth of Top of Screen (ft-bsg)	3
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	2
Slot Size of Screen (in)	0.02
Length of Screen (ft)	7
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	10
Depth of Bottom of Filter Pack (ft-bsg)	10
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	10
Elevation of Bottom of Hole	N/A

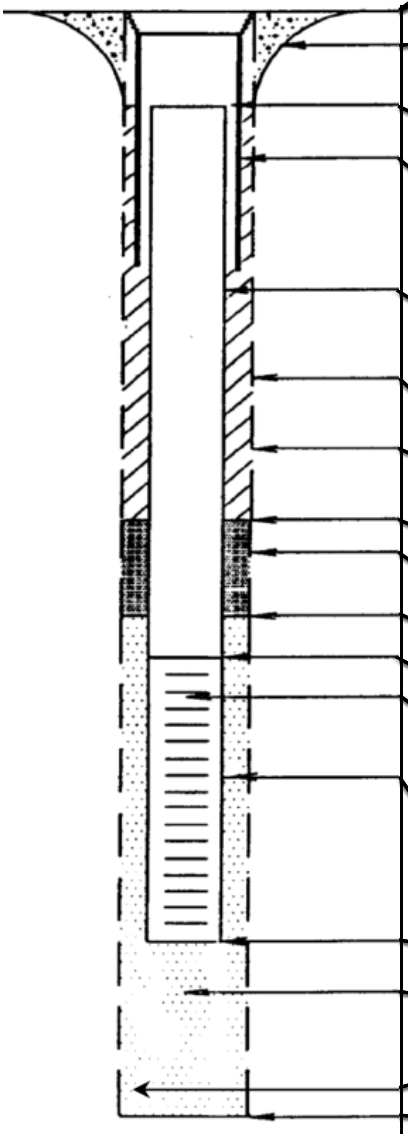
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-9**
Field Engineer:	M. Accetturi	Date Started:	1/23/24
Driller:	Coastal Environmental	Date Completed:	1/23/24
Drilling Method:	Direct-Push Track-Mounted Geoprobe	Elevation Datum:	NAVD88
Development Method:	Peristaltic Pump	Weather:	Overcast/Rain, 30s
Sump Installed? (Y/N)	N	Boring Number:	N/A
Sump Length (Ft):	N/A		



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	13.08
I.D. of Surface Casing (in)	4
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	2
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	4
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	1
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	3
Depth of Top of Screen (ft-bsg)	3
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	2
Slot Size of Screen (in)	0.02
Length of Screen (ft)	7
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	10
Depth of Bottom of Filter Pack (ft-bsg)	10
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	10
Elevation of Bottom of Hole	N/A

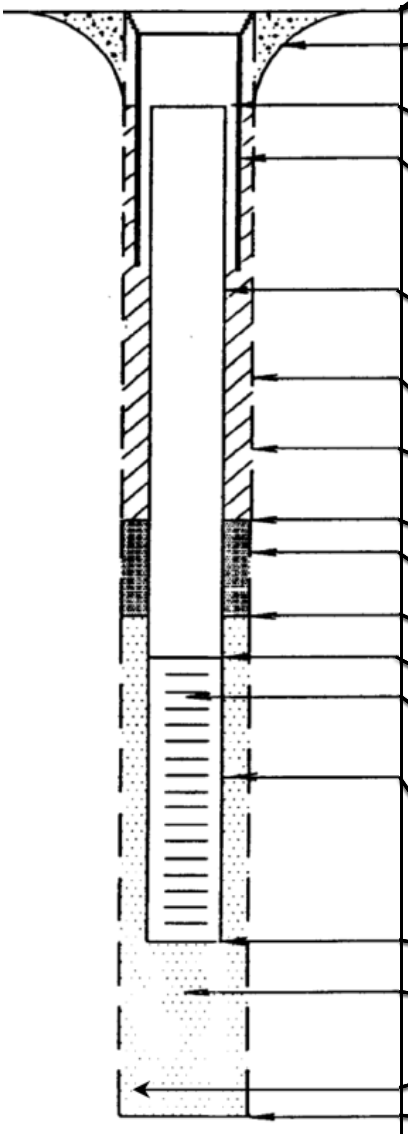
Comments: ft-bsg = feet below surface grade

TENEN ENVIRONMENTAL

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well Construction Diagram (Flush Mount)

Project:	127 12th Street	**Well Number:**	**TW-10**
Field Engineer:	M. Accetturi	Date Started:	1/23/24
Driller:	Coastal Environmental	Date Completed:	1/23/24
Drilling Method:	Direct-Push Track-Mounted Geoprobe	Elevation Datum:	NAVD88
Development Method:	Peristaltic Pump	Weather:	Overcast/Rain, 30s
Sump Installed? (Y/N)	N	Boring Number:	TW-10
Sump Length (Ft):	N/A		



Ground Surface	Concrete
Elevation of Top of Surface Casing	N/A
Type of Surface Plug	Concrete
Depth of Surface Plug (ft-bsg)	1
Diameter of Surface Plug (ft)	N/A
Riser Pipe	
Depth of Top of Riser Pipe (ft-bsg)	0
Elevation of Top of Riser Pipe	11.9
I.D. of Surface Casing (in)	4
Type of Surface Casing	Manhole cover
Depth of Surface Casing (ft-bsg)	1
I.D. of Riser (in)	2
Type of Riser	Schedule 40 PVC
Borehole Diameter (in)	4
Type of Backfill	Clean soil cuttings
Backfill - Tremied? (Y/N)	N
Depth of Top of Seal (ft-bsg)	1
Elevation of Top of Seal	N/A
Type of Seal	Bentonite Pellets
Seal - Tremied? (Y/N)	N
Depth of Top of Filter Pack (ft-bsg)	3
Depth of Top of Screen (ft-bsg)	3
Elevation of Top of Screen	N/A
Type of Screen	Schedule 40 PVC
I.D. of Screen (in)	2
Slot Size of Screen (in)	0.02
Length of Screen (ft)	7
Type of Filter Pack	Sand
Filter Pack - Tremied? (Y/N)	N
Depth of Bottom of Screen (ft-bsg)	10
Depth of Bottom of Filter Pack (ft-bsg)	10
Elevation of Bottom of Filter Pack	N/A
Type of Backfill Below Filter Pack	N/A
Depth of Bottom of Hole (ft-bsg)	10
Elevation of Bottom of Hole	N/A

Comments: ft-bsg = feet below surface grade

Attachment 4
Groundwater Purge and Sampling Logs

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/16/2023
Well No.	TW-1	Sample ID	TW-1

Well Diameter	1 inch	Depth to Water	6.84 ft-bg
Well Screen Interval	3-15 ft-bg	Depth to Bottom	11.91 ft-bg
Headspace PID	0.0 ppm		
Weather	70s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	3 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
14:43	16.24	6.73	152	0.581	186	0.64	0.372
15:06	16.24	9.69	90	0.603	1000	3.13	0.385
15:10	16.12	12.33	13	0.524	1000	4.83	0.345
15:27	15.23	9.67	22	0.254	1000	3.00	0.166
16:05	14.91	7.47	95	0.234	435	2.50	0.153
16:15	14.90	7.04	129	0.228	349	2.79	0.148

Notes: Sampled TW-1 at 16:15 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/16/2023
Well No.	TW-2	Sample ID	TW-2

Well Diameter	1 inch	Depth to Water	10.33 ft-bg
Well Screen Interval	3-15 ft-bg	Depth to Bottom	15.41 ft-bg
Headspace PID	0.0 ppm		
Weather	70s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	6 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
11:24	23.54	6.94	114	0.001	1000	9.10	0.001
11:29	16.75	12.52	-16	1.010	1000	2.01	0.650
11:38	16.40	9.70	48	0.653	1000	0.98	0.418
11:42	16.36	9.24	58	0.651	1000	0.93	0.417
11:53	16.22	8.19	86	0.633	1000	0.82	0.405
12:00	16.31	7.78	99	0.625	1000	0.80	0.400
12:03	16.24	7.71	100	0.624	1000	0.78	0.399
12:18	16.37	7.26	112	0.612	1000	0.87	0.392
12:38	16.34	6.99	121	0.585	710	4.73	0.374
12:51	16.36	7.01	123	0.600	595	2.14	0.384
13:09	16.38	6.94	128	0.594	224	0.83	0.380
13:15	16.37	6.90	130	0.591	272	0.80	0.378
13:30	16.35	6.88	132	0.590	189	0.76	0.378
14:03	16.32	6.81	139	0.585	155	0.49	0.375

Notes: Sampled TW-2 at 14:30 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/17/2023
Well No.	TW-3	Sample ID	TW-3

Well Diameter	1 inch	Depth to Water	5.28 ft-bg
Well Screen Interval	2-12 ft-bg	Depth to Bottom	11.07 ft-bg
Headspace PID	0.0 ppm		
Weather	60s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
8:17	15.89	7.87	176	0.458	1000	3.59	0.298
8:40	15.79	7.44	124	0.411	1000	2.51	0.267
8:47	15.79	7.40	124	0.409	912	2.48	0.266
8:53	15.79	7.38	125	0.407	716	2.47	0.264
9:01	15.79	7.36	127	0.406	543	2.45	0.264
9:10	15.78	7.34	129	0.404	430	2.41	0.263
9:20	15.78	7.33	130	0.404	330	2.41	0.262
9:30	15.77	7.32	133	0.403	253	2.41	0.262
9:41	15.78	7.31	136	0.402	239	2.45	0.261
9:49	15.77	7.30	137	0.402	177	2.49	0.261
9:59	15.77	7.30	139	0.401	123	2.43	0.261
10:14	15.77	7.29	143	0.401	108	2.39	0.260
10:22	15.77	7.29	144	0.401	71.3	2.38	0.260
10:30	15.77	7.28	146	0.400	78.8	2.39	0.260

Notes: Sampled TW-3 at 10:35 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/17/2023
Well No.	TW-4	Sample ID	TW-4

Well Diameter	1 inch	Depth to Water	6.40 ft-bg
Well Screen Interval	2-12 ft-bg	Depth to Bottom	9.55 ft-bg
Headspace PID	0.0 ppm		
Weather	60s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
11:00	17.03	11.18	98	0.605	1000	3.47	0.388
11:16	16.83	9.16	138	0.331	1000	0.01	0.215
11:26	16.82	7.52	169	0.292	1000	0.00	0.190
11:38	16.82	7.22	184	0.295	1000	0.01	0.192
11:50	17.55	7.29	201	0.165	1000	1.87	0.103
12:14	17.00	8.47	201	0.388	1000	1.38	0.252
12:18	16.83	7.58	227	0.325	1000	0.59	0.211
12:21	16.81	7.21	239	0.335	1000	0.46	0.218
12:33	17.51	7.15	208	0.374	1000	4.65	0.243
12:39	17.15	6.78	219	0.311	510	1.02	0.202
12:42	17.13	6.69	223	0.309	113	0.92	0.201
12:45	17.13	6.66	224	0.307	86.5	0.82	0.199
12:47	17.12	6.66	225	0.306	64.3	0.75	0.199
12:48	17.11	6.65	226	0.306	52.3	0.72	0.199
12:50	17.12	6.65	226	0.305	46.7	0.66	0.198

Notes: Sampled TW-4 at 12:50 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/17/2023
Well No.	TW-5	Sample ID	TW-5

Well Diameter	1 inch	Depth to Water	6.38 ft-bg
Well Screen Interval	2-12 ft-bg	Depth to Bottom	11.49 ft-bg
Headspace PID	0.0 ppm		
Weather	60s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	3 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
11:02	18.94	9.96	23	0.590	1000	3.71	0.378
11:18	18.49	7.03	53	0.430	1000	0.43	0.279
11:28	18.45	6.84	71	0.398	1000	0.39	0.259
11:43	18.42	6.60	98	0.380	141	2.18	0.247
12:06	18.41	6.51	123	0.371	90.2	0.42	0.241
12:07	18.42	6.51	123	0.371	57.6	0.42	0.241
12:08	18.41	6.51	124	0.371	50.1	0.39	0.241
12:15	18.42	6.48	134	0.369	47.5	0.64	0.240

Notes: Sampled TW-5 at 12:15 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/17/2023
Well No.	TW-6	Sample ID	TW-6

Well Diameter	1 inch	Depth to Water	5.45 ft-bg
Well Screen Interval	2-12 ft-bg	Depth to Bottom	11.31 ft-bg
Headspace PID	0.0 ppm		
Weather	60s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	4 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
13:14	17.99	8.61	-65	0.721	1000	8.89	0.461
13:20	18.01	8.43	-73	0.732	267	8.76	0.468
13:25	18.03	8.04	-90	0.762	178	8.53	0.487
13:31	18.05	7.90	-80	0.783	129	8.21	0.500
13:41	18.04	7.83	-59	0.800	109	7.78	0.511
13:51	18.04	7.76	-54	0.821	151	7.13	0.526
14:01	18.04	7.74	-54	0.822	181	6.84	0.526
14:14	18.03	7.73	-54	0.823	97.9	6.74	0.526
14:16	18.03	7.72	-54	0.823	77.7	6.60	0.527
14:32	18.03	7.70	-55	0.823	100	6.28	0.527
14:35	18.04	7.70	-56	0.824	94.9	6.11	0.527

Notes: Petroleum odors and sheen noted on purge water. Sampled TW-6 at 15:25 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	5/17/2023
Well No.	TW-7	Sample ID	TW-7

Well Diameter	1 inch	Depth to Water	5.35 ft-bg
Well Screen Interval	2-12 ft-bg	Depth to Bottom	9.23 ft-bg
Headspace PID	0.0 ppm		
Weather	60s, Partly Cloudy		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
13:35	17.83	9.68	-157	0.349	1000	0.00	0.227
13:42	17.81	9.01	-129	0.356	764	0.00	0.231
13:50	17.77	8.35	-82	0.355	502	0.00	0.231
13:55	17.78	8.14	-66	0.353	321	0.00	0.229
14:05	17.78	7.80	-42	0.347	263	0.00	0.226
14:14	17.77	7.66	-29	0.344	189	0.00	0.223
14:16	17.77	7.64	-27	0.343	177	0.00	0.223
14:21	17.76	7.57	-18	0.342	154	0.00	0.222
14:31	17.76	7.49	-9	0.339	137	0.00	0.220
14:38	17.78	7.44	-3	0.336	93.1	0.00	0.219
14:44	17.79	7.42	2	0.335	73.9	0.00	0.217
14:52	17.81	7.40	8	0.332	58.5	0.00	0.216
14:54	17.82	7.41	9	0.332	52.2	0.00	0.216

Notes: Sampled TW-7 at 14:55 for VOCs, SVOCs, total and dissolved metals, pesticides, and PCBs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	1/25/2024
Well No.	TW-3	Sample ID	TW-3

Well Diameter	1 inch	Depth to Water	5.29 ft-bg
Well Screen Interval	2-12 ft-bg	Depth to Bottom	8.56 ft-bg
Headspace PID	2.7 ppm		
Weather	50s, Rain/Overcast		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	0.75 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
13:45	16.04	7.44	136	0.274	19.9	2.22	0.178
14:14	16.24	7.28	147	0.251	0.0	1.86	0.163
14:25	16.30	7.26	149	0.247	0.0	1.63	0.160

Notes: Sampled TW-3 at 14:30 for VOCs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	1/25/2024
Well No.	TW-8	Sample ID	TW-8

Well Diameter	2 inches	Depth to Water	5.33 ft-bg
Well Screen Interval	3-10 ft-bg	Depth to Bottom	8.60 ft-bg
Headspace PID	10.3 ppm		
Weather	50s, Rain/Overcast		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	3.5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
11:11	15.36	7.26	95	0.289	874	4.99	0.188
11:22	15.63	6.90	124	0.242	126	5.26	0.157
11:32	15.69	6.78	141	0.232	26.9	5.32	0.151
11:42	15.69	6.75	149	0.229	13.6	4.73	0.149
11:51	15.68	6.74	153	0.229	9.1	4.91	0.148

Notes: Sampled TW-8 at 11:55 for VOCs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	1/25/2024
Well No.	TW-9	Sample ID	TW-9

Well Diameter	2 inches	Depth to Water	5.38 ft-bg
Well Screen Interval	3-10 ft-bg	Depth to Bottom	8.80 ft-bg
Headspace PID	1.3 ppm		
Weather	50s, Rain/Overcast		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	3.5 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
9:36	16.83	7.49	48	0.518	70.6	1.06	0.331
9:48	17.25	7.07	55	0.502	50.1	0.91	0.324
9:59	17.38	6.93	55	0.458	9.3	0.63	0.298
10:07	17.37	6.88	54	0.442	0.6	0.54	0.297
10:18	17.40	6.86	57	0.444	0.0	0.51	0.288

Notes: Sampled TW-9 at 10:25 for VOCs.

GROUNDWATER SAMPLING LOG

Site Name	127 12th Street	Date	1/25/2024
Well No.	TW-10	Sample ID	TW-10

Well Diameter	2 inches	Depth to Water	ft-bg
Well Screen Interval	3-10 ft-bg	Depth to Bottom	10.00 ft-bg
Headspace PID	3.2 ppm		
Weather	50s, Rain/Overcast		

Pump	Peristaltic
Water Quality Meter	Horiba U52
Total Volume Purged	2.75 gallons

Time	Temperature deg-C	pH SU	ORP mV	Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Total Dissolved Solids ppm
12:37	16.54	7.25	109	0.513	22.5	1.06	0.331
12:47	16.65	7.25	81	0.520	0.0	0.91	0.324
12:59	16.72	7.24	73	0.523	0.0	0.63	0.298
13:08	16.74	7.24	72	0.522	0.0	0.54	0.297

Notes: Sampled TW-10 at 13:15 for VOCs.

Attachment 5
Laboratory Deliverables

ANALYTICAL REPORT

Lab Number:	L2326314
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Matthew Carroll
Phone:	(646) 606-2332
Project Name:	127 12TH STREET
Project Number:	127 12TH STREET
Report Date:	06/02/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2326314-01	SB-1 (3-5)	SOIL	BKLYN, NY	05/10/23 09:45	05/11/23
L2326314-02	SB-2 (3-5)	SOIL	BKLYN, NY	05/10/23 10:40	05/11/23
L2326314-03	SB-3 (2-4)	SOIL	BKLYN, NY	05/11/23 10:15	05/11/23
L2326314-04	SB-8 (1-3)	SOIL	BKLYN, NY	05/11/23 11:20	05/11/23
L2326314-05	SB-9 (2-4)	SOIL	BKLYN, NY	05/11/23 12:00	05/11/23
L2326314-06	SB-10 (2-4)	SOIL	BKLYN, NY	05/11/23 13:45	05/11/23
L2326314-07	SB-4 (3-5)	SOIL	BKLYN, NY	05/11/23 13:20	05/11/23
L2326314-08	SB-11 (3-5)	SOIL	BKLYN, NY	05/11/23 15:00	05/11/23
L2326314-09	SB-13 (4-6)	SOIL	BKLYN, NY	05/12/23 13:30	05/12/23
L2326314-10	WOOD-1	SOLID	BKLYN, NY	05/12/23 09:30	05/12/23
L2326314-11	WOOD-2	SOLID	BKLYN, NY	05/12/23 10:00	05/12/23
L2326314-12	CONCRETE-1	CONCRETE	BKLYN, NY	05/12/23 11:00	05/12/23
L2326314-13	SB-5 (3-5)	SOIL	BKLYN, NY	05/15/23 09:00	05/15/23
L2326314-14	SB-7 (2-4)	SOIL	BKLYN, NY	05/15/23 10:30	05/15/23
L2326314-15	SB-12 (2-4)	SOIL	BKLYN, NY	05/15/23 11:10	05/15/23
L2326314-16	SB-6 (2-4)	SOIL	BKLYN, NY	05/15/23 11:45	05/15/23
L2326314-17	CONCRETE-2	CONCRETE	BKLYN, NY	05/15/23 12:40	05/15/23
L2326314-18	CONCRETE-3	CONCRETE	BKLYN, NY	05/15/23 13:15	05/15/23
L2326314-19	CONCRETE-4	CONCRETE	BKLYN, NY	05/15/23 13:45	05/15/23
L2326314-20	TB_SOIL	WATER	BKLYN, NY	05/15/23 00:00	05/15/23
L2326314-21	FB_SOIL	WATER	BKLYN, NY	05/15/23 14:30	05/15/23

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
Project Number:	127 12TH STREET	**Report Date:**	06/02/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
Project Number:	127 12TH STREET	**Report Date:**	06/02/23

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2326314-01: The collection date and time on the chain of custody was 10-MAY-23 09:45; however, the collection date/time on the container label was 10-MAY-23 10:15. At the client's request, the collection date/time is reported as 10-MAY-23 09:45.

L2326314-02: The collection date and time on the chain of custody was 10-MAY-23 10:40; however, the collection date/time on the container label was 10-MAY-23 10:30. At the client's request, the collection date/time is reported as 10-MAY-23 10:40.

Volatile Organics

L2326314-04D: The surrogate recovery for 1,2-dichloroethane-d4 (133%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L2326314-10, -11, -12, -17, -18, and -19: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2326314-18: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (26%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2326314-19: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

The WG1784068-5 Method Blank, associated with L2326314-13 through -16 and -18, has a concentration above the reporting limit for bromomethane. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required.

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
Project Number:	127 12TH STREET	**Report Date:**	06/02/23

Case Narrative (continued)

The WG1784836-5 Method Blank, associated with L2326314-10, -17, and -19, has a concentration above the reporting limit for bromomethane. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Semivolatile Organics

L2326314-09D and -19RE\D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2326314-10D: The sample has elevated detection limits due to the limited sample volume utilized during extraction and the dilution required by the sample matrix.

L2326314-10D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2326314-11: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

L2326314-11: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (1%), phenol-d6 (9%), nitrobenzene-d5 (10%), 2-fluorobiphenyl (10%), 2,4,6-tribromophenol (7%), and 4-terphenyl-d14 (9%); however, re-extraction with the method required holding time exceeded achieved the following results: 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. The results of both extractions are reported.

L2326314-11RE\D: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample, due to the limited sample volume utilized during extraction, and the analytical dilution required by the sample matrix.

Surrogate recoveries for the following samples are below the acceptance criteria due to the concrete matrix effect of the samples. No further action was taken:

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
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Case Narrative (continued)

L2326314-12: 2-fluorophenol (0%), phenol-d6 (0%), and 2,4,6-tribromophenol (0%)
L2326314-12RE\D: 2-fluorophenol (4%) and 2,4,6-tribromophenol (0%)
L2326314-18: 2-fluorophenol (0%), phenol-d6 (0%), and 2,4,6-tribromophenol (16%)
L2326314-18RE: 2-fluorophenol (2%), phenol-d6 (33%), and 2,4,6-tribromophenol (0%)
L2326314-19: 2,4,6-tribromophenol (19%)
L2326314-19RE\D: 2,4,6-tribromophenol (5%)

L2326314-17D: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (14%), 2-fluorobiphenyl (24%), 2,4,6-tribromophenol (13%), and 4-terphenyl-d14 (24%); however, re-extraction with the method required holding time exceeded achieved the following results: 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. The results of both extractions are reported.

The surrogate recoveries for the WG1781035-1 Method Blank, associated with L2326314-12, -17, -18, and -19, were outside the acceptance criteria for 2-fluorophenol (24%), phenol-d6 (25%), nitrobenzene-d5 (23%), 2-fluorobiphenyl (22%), 2,4,6-tribromophenol (24%) and 4-terphenyl-d14 (25%); however, the criteria were achieved upon re-extraction outside of holding time. The results of both extractions are reported.

The WG1778966-2 LCS recoveries, associated with L2326314-10D, -11, and -11D, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1781035-3 LCSD recovery, associated with L2326314-12, -12D, -17D, -17D2, -18, and -19, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1784992-2/-3 LCS/LCSD recoveries, associated with L2326314-11RE\D, are below the acceptance criteria for 2,4-dinitrophenol (LCSD 0%) and benzoic acid (0%/0%); however, they have been identified as "difficult" analytes. The results of the associated sample are reported.

The WG1785034-2/-3 LCS/LCSD recoveries, associated with L2326314-12RE\D, -12RE\D2, -17RE\D, -18D,

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Case Narrative (continued)

-18RE, and -19RE\D, are below the acceptance criteria for benzoic acid (2%/2%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Semivolatile Organics by SIM

L2326314-21: The Field Blank has a concentration above the reporting limit for naphthalene. The sample was re-extracted with the method required holding time exceeded and was non-detect to the reporting limit for this target compound. The results of both extractions are reported.

Pesticides

L2326314-17D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L2326314-01 through -19: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

L2326314-21: The Field Blank has a results for barium and sodium present above the reporting limits. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1783346-3 MS recoveries for aluminum (1800%), iron (3720%), and manganese (1360%), performed on L2326314-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1783346-3 MS recovery, performed on L2326314-01, is outside the acceptance criteria for magnesium (132%). A post digestion spike was performed and was within acceptance criteria.

The WG1783346-6 serial dilution analysis, associated with L2326314-01, had a %D above the acceptance criteria for aluminum (23%), barium (24%), calcium (25%), iron (30%), and manganese (23%).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/02/23

ORGANICS

VOLATILES

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/23/23 23:55
Analyst: JIC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	15		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.7		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	0.46	J	ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	0.46	J	ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	106		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/24/23 00:21
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	8.1		ug/kg	0.63	0.24	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.87	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	0.24	J	ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02 Date Collected: 05/10/23 10:40

Client ID: SB-2 (3-5) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	1.3	J	ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/25/23 21:59
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	27		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.20	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03 Date Collected: 05/11/23 10:15

Client ID: SB-3 (2-4) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	5.3	J	ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	0.79	J	ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	122		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/25/23 18:33
Analyst: LAC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	68	9.9	1
Chloroform	ND		ug/kg	100	9.6	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.5	1
Dibromochloromethane	ND		ug/kg	68	9.6	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	47000	E	ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.7	1
Trichlorofluoromethane	ND		ug/kg	270	48.	1
1,2-Dichloroethane	ND		ug/kg	68	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	19.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	ND		ug/kg	68	37.	1
Ethylbenzene	ND		ug/kg	68	9.6	1
Chloromethane	ND		ug/kg	270	64.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.4	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04 Date Collected: 05/11/23 11:20

Client ID: SB-8 (1-3) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	99		ug/kg	34	9.4	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.8	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	ND		ug/kg	68	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	68	12.	1
1,2-Dichloroethene, Total	ND		ug/kg	68	9.4	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	ND		ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	330	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	150	1
4-Methyl-2-pentanone	ND		ug/kg	680	88.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.7	1
2-Hexanone	ND		ug/kg	680	81.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	34		ug/kg	34	9.0	1
Bromobenzene	ND		ug/kg	140	9.9	1
n-Butylbenzene	ND		ug/kg	68	11.	1
sec-Butylbenzene	ND		ug/kg	68	10.	1
tert-Butylbenzene	ND		ug/kg	140	8.1	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	12.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	ND		ug/kg	68	7.4	1
Naphthalene	44	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	79.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5500	2400	1
p-Diethylbenzene	ND		ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	97.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	81		70-130
Dibromofluoromethane	107		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04 D
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/24/23 16:07
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	39000		ug/kg	170	67.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**133**	Q	70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/25/23 17:23
Analyst: LAC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	27		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.87	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.21	1
Benzene	ND		ug/kg	0.62	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	4.5	J	ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	124		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/25/23 17:47
Analyst: LAC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	5.1	J	ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	1.0	J	ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	200		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	3.0		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	5.8	J	ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	0.55	J	ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	118		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/24/23 17:06
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	440	200	1
1,1-Dichloroethane	ND		ug/kg	87	13.	1
Chloroform	ND		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	87	20.	1
1,2-Dichloropropane	ND		ug/kg	87	11.	1
Dibromochloromethane	ND		ug/kg	87	12.	1
1,1,2-Trichloroethane	ND		ug/kg	87	23.	1
Tetrachloroethene	4600		ug/kg	44	17.	1
Chlorobenzene	ND		ug/kg	44	11.	1
Trichlorofluoromethane	ND		ug/kg	350	60.	1
1,2-Dichloroethane	ND		ug/kg	87	22.	1
1,1,1-Trichloroethane	ND		ug/kg	44	14.	1
Bromodichloromethane	ND		ug/kg	44	9.5	1
trans-1,3-Dichloropropene	ND		ug/kg	87	24.	1
cis-1,3-Dichloropropene	ND		ug/kg	44	14.	1
1,3-Dichloropropene, Total	ND		ug/kg	44	14.	1
1,1-Dichloropropene	ND		ug/kg	44	14.	1
Bromoform	ND		ug/kg	350	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	44	14.	1
Benzene	ND		ug/kg	44	14.	1
Toluene	ND		ug/kg	87	47.	1
Ethylbenzene	ND		ug/kg	87	12.	1
Chloromethane	ND		ug/kg	350	81.	1
Bromomethane	ND		ug/kg	170	51.	1
Vinyl chloride	ND		ug/kg	87	29.	1
Chloroethane	ND		ug/kg	170	39.	1
1,1-Dichloroethene	ND		ug/kg	87	21.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	12.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07 Date Collected: 05/11/23 13:20

Client ID: SB-4 (3-5) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	28	J	ug/kg	44	12.	1
1,2-Dichlorobenzene	ND		ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	13.	1
1,4-Dichlorobenzene	ND		ug/kg	170	15.	1
Methyl tert butyl ether	ND		ug/kg	170	18.	1
p/m-Xylene	ND		ug/kg	170	49.	1
o-Xylene	ND		ug/kg	87	25.	1
Xylenes, Total	ND		ug/kg	87	25.	1
cis-1,2-Dichloroethene	ND		ug/kg	87	15.	1
1,2-Dichloroethene, Total	ND		ug/kg	87	12.	1
Dibromomethane	ND		ug/kg	170	21.	1
Styrene	33	J	ug/kg	87	17.	1
Dichlorodifluoromethane	ND		ug/kg	870	80.	1
Acetone	ND		ug/kg	870	420	1
Carbon disulfide	ND		ug/kg	870	400	1
2-Butanone	ND		ug/kg	870	190	1
Vinyl acetate	ND		ug/kg	870	190	1
4-Methyl-2-pentanone	ND		ug/kg	870	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	870	100	1
Bromochloromethane	ND		ug/kg	170	18.	1
2,2-Dichloropropane	ND		ug/kg	170	18.	1
1,2-Dibromoethane	ND		ug/kg	87	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	44	12.	1
Bromobenzene	ND		ug/kg	170	13.	1
n-Butylbenzene	ND		ug/kg	87	14.	1
sec-Butylbenzene	ND		ug/kg	87	13.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	17.	1
p-Chlorotoluene	ND		ug/kg	170	9.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	260	87.	1
Hexachlorobutadiene	ND		ug/kg	350	15.	1
Isopropylbenzene	ND		ug/kg	87	9.5	1
p-Isopropyltoluene	ND		ug/kg	87	9.5	1
Naphthalene	ND		ug/kg	350	57.	1
Acrylonitrile	ND		ug/kg	350	100	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	87	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	28.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	24.	1
1,3,5-Trimethylbenzene	ND		ug/kg	170	17.	1
1,2,4-Trimethylbenzene	ND		ug/kg	170	29.	1
1,4-Dioxane	ND		ug/kg	7000	3100	1
p-Diethylbenzene	ND		ug/kg	170	15.	1
p-Ethyltoluene	ND		ug/kg	170	33.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	170	17.	1
Ethyl ether	ND		ug/kg	170	30.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	440	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/25/23 18:10
Analyst: LAC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	1.0	J	ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	87		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08 Date Collected: 05/11/23 15:00

Client ID: SB-11 (3-5) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.5		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	3.5		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	3.5		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	9.3	J	ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	6.0	J	ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	120		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY

Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/25/23 18:24
Analyst: JIC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	12		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.68	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	0.87	J	ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09 Date Collected: 05/12/23 13:30

Client ID: SB-13 (4-6) Date Received: 05/12/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.7	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY
Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	115		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10
Client ID: WOOD-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260D
Analytical Date: 05/26/23 20:25
Analyst: MKS
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	430	J	ug/kg	730	340	1
1,1-Dichloroethane	ND		ug/kg	150	21.	1
Chloroform	39	J	ug/kg	220	20.	1
Carbon tetrachloride	ND		ug/kg	150	34.	1
1,2-Dichloropropane	ND		ug/kg	150	18.	1
Dibromochloromethane	ND		ug/kg	150	20.	1
1,1,2-Trichloroethane	ND		ug/kg	150	39.	1
Tetrachloroethene	26000		ug/kg	73	29.	1
Chlorobenzene	ND		ug/kg	73	19.	1
Trichlorofluoromethane	ND		ug/kg	590	100	1
1,2-Dichloroethane	ND		ug/kg	150	38.	1
1,1,1-Trichloroethane	ND		ug/kg	73	24.	1
Bromodichloromethane	ND		ug/kg	73	16.	1
trans-1,3-Dichloropropene	ND		ug/kg	150	40.	1
cis-1,3-Dichloropropene	ND		ug/kg	73	23.	1
1,3-Dichloropropene, Total	ND		ug/kg	73	23.	1
1,1-Dichloropropene	ND		ug/kg	73	23.	1
Bromoform	ND		ug/kg	590	36.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	73	24.	1
Benzene	49	J	ug/kg	73	24.	1
Toluene	1200		ug/kg	150	80.	1
Ethylbenzene	5800		ug/kg	150	21.	1
Chloromethane	ND		ug/kg	590	140	1
Bromomethane	190	JB	ug/kg	290	85.	1
Vinyl chloride	ND		ug/kg	150	49.	1
Chloroethane	ND		ug/kg	290	66.	1
1,1-Dichloroethene	ND		ug/kg	150	35.	1
trans-1,2-Dichloroethene	ND		ug/kg	220	20.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10 Date Collected: 05/12/23 09:30

Client ID: WOOD-1 Date Received: 05/12/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	73	20.	1
1,2-Dichlorobenzene	ND		ug/kg	290	21.	1
1,3-Dichlorobenzene	ND		ug/kg	290	22.	1
1,4-Dichlorobenzene	ND		ug/kg	290	25.	1
Methyl tert butyl ether	ND		ug/kg	290	30.	1
p/m-Xylene	33000		ug/kg	290	82.	1
o-Xylene	29000		ug/kg	150	43.	1
Xylenes, Total	62000		ug/kg	150	43.	1
cis-1,2-Dichloroethene	ND		ug/kg	150	26.	1
1,2-Dichloroethene, Total	ND		ug/kg	150	20.	1
Dibromomethane	ND		ug/kg	290	35.	1
Styrene	35	J	ug/kg	150	29.	1
Dichlorodifluoromethane	ND		ug/kg	1500	130	1
Acetone	8500		ug/kg	1500	710	1
Carbon disulfide	ND		ug/kg	1500	670	1
2-Butanone	640	J	ug/kg	1500	330	1
Vinyl acetate	ND		ug/kg	1500	320	1
4-Methyl-2-pentanone	1000	J	ug/kg	1500	190	1
1,2,3-Trichloropropane	ND		ug/kg	290	19.	1
2-Hexanone	ND		ug/kg	1500	170	1
Bromochloromethane	ND		ug/kg	290	30.	1
2,2-Dichloropropane	ND		ug/kg	290	30.	1
1,2-Dibromoethane	ND		ug/kg	150	41.	1
1,3-Dichloropropane	ND		ug/kg	290	24.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	73	19.	1
Bromobenzene	ND		ug/kg	290	21.	1
n-Butylbenzene	620		ug/kg	150	24.	1
sec-Butylbenzene	860		ug/kg	150	21.	1
tert-Butylbenzene	ND		ug/kg	290	17.	1
o-Chlorotoluene	ND		ug/kg	290	28.	1
p-Chlorotoluene	ND		ug/kg	290	16.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	440	150	1
Hexachlorobutadiene	ND		ug/kg	590	25.	1
Isopropylbenzene	1300		ug/kg	150	16.	1
p-Isopropyltoluene	460		ug/kg	150	16.	1
Naphthalene	25000		ug/kg	590	96.	1
Acrylonitrile	ND		ug/kg	590	170	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10
Client ID: WOOD-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	3200		ug/kg	150	25.	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	47.	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	40.	1
1,3,5-Trimethylbenzene	15000		ug/kg	290	28.	1
1,2,4-Trimethylbenzene	32000		ug/kg	290	49.	1
1,4-Dioxane	ND		ug/kg	12000	5200	1
p-Diethylbenzene	ND		ug/kg	290	26.	1
p-Ethyltoluene	19000		ug/kg	290	56.	1
1,2,4,5-Tetramethylbenzene	5100		ug/kg	290	28.	1
Ethyl ether	ND		ug/kg	290	50.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	730	210	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	102		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260D
Analytical Date: 05/25/23 18:56
Analyst: LAC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	910		ug/kg	830	380	1
1,1-Dichloroethane	ND		ug/kg	170	24.	1
Chloroform	98	J	ug/kg	250	23.	1
Carbon tetrachloride	72	J	ug/kg	170	38.	1
1,2-Dichloropropane	ND		ug/kg	170	21.	1
Dibromochloromethane	ND		ug/kg	170	23.	1
1,1,2-Trichloroethane	ND		ug/kg	170	44.	1
Tetrachloroethene	47000		ug/kg	83	33.	1
Chlorobenzene	120		ug/kg	83	21.	1
Trichlorofluoromethane	ND		ug/kg	670	120	1
1,2-Dichloroethane	ND		ug/kg	170	43.	1
1,1,1-Trichloroethane	ND		ug/kg	83	28.	1
Bromodichloromethane	ND		ug/kg	83	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	170	46.	1
cis-1,3-Dichloropropene	ND		ug/kg	83	26.	1
1,3-Dichloropropene, Total	ND		ug/kg	83	26.	1
1,1-Dichloropropene	ND		ug/kg	83	26.	1
Bromoform	ND		ug/kg	670	41.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	83	28.	1
Benzene	ND		ug/kg	83	28.	1
Toluene	8400		ug/kg	170	91.	1
Ethylbenzene	7900		ug/kg	170	24.	1
Chloromethane	ND		ug/kg	670	160	1
Bromomethane	ND		ug/kg	330	97.	1
Vinyl chloride	ND		ug/kg	170	56.	1
Chloroethane	ND		ug/kg	330	75.	1
1,1-Dichloroethene	ND		ug/kg	170	40.	1
trans-1,2-Dichloroethene	ND		ug/kg	250	23.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 Date Collected: 05/12/23 10:00

Client ID: WOOD-2 Date Received: 05/12/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	83	23.	1
1,2-Dichlorobenzene	ND		ug/kg	330	24.	1
1,3-Dichlorobenzene	ND		ug/kg	330	25.	1
1,4-Dichlorobenzene	ND		ug/kg	330	28.	1
Methyl tert butyl ether	ND		ug/kg	330	34.	1
p/m-Xylene	44000		ug/kg	330	94.	1
o-Xylene	30000		ug/kg	170	48.	1
Xylenes, Total	74000		ug/kg	170	48.	1
cis-1,2-Dichloroethene	ND		ug/kg	170	29.	1
1,2-Dichloroethene, Total	ND		ug/kg	170	23.	1
Dibromomethane	ND		ug/kg	330	40.	1
Styrene	ND		ug/kg	170	33.	1
Dichlorodifluoromethane	ND		ug/kg	1700	150	1
Acetone	11000		ug/kg	1700	800	1
Carbon disulfide	ND		ug/kg	1700	760	1
2-Butanone	2400		ug/kg	1700	370	1
Vinyl acetate	ND		ug/kg	1700	360	1
4-Methyl-2-pentanone	17000		ug/kg	1700	210	1
1,2,3-Trichloropropane	ND		ug/kg	330	21.	1
2-Hexanone	ND		ug/kg	1700	200	1
Bromochloromethane	ND		ug/kg	330	34.	1
2,2-Dichloropropane	ND		ug/kg	330	34.	1
1,2-Dibromoethane	ND		ug/kg	170	46.	1
1,3-Dichloropropane	ND		ug/kg	330	28.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	83	22.	1
Bromobenzene	ND		ug/kg	330	24.	1
n-Butylbenzene	1000		ug/kg	170	28.	1
sec-Butylbenzene	1400		ug/kg	170	24.	1
tert-Butylbenzene	ND		ug/kg	330	20.	1
o-Chlorotoluene	ND		ug/kg	330	32.	1
p-Chlorotoluene	ND		ug/kg	330	18.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	500	170	1
Hexachlorobutadiene	ND		ug/kg	670	28.	1
Isopropylbenzene	2000		ug/kg	170	18.	1
p-Isopropyltoluene	520		ug/kg	170	18.	1
Naphthalene	13000		ug/kg	670	110	1
Acrylonitrile	ND		ug/kg	670	190	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY
Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	5100		ug/kg	170	28.	1
1,2,3-Trichlorobenzene	ND		ug/kg	330	54.	1
1,2,4-Trichlorobenzene	ND		ug/kg	330	45.	1
1,3,5-Trimethylbenzene	24000		ug/kg	330	32.	1
1,2,4-Trimethylbenzene	65000	E	ug/kg	330	56.	1
1,4-Dioxane	ND		ug/kg	13000	5900	1
p-Diethylbenzene	16000		ug/kg	330	30.	1
p-Ethyltoluene	31000		ug/kg	330	64.	1
1,2,4,5-Tetramethylbenzene	8300		ug/kg	330	32.	1
Ethyl ether	ND		ug/kg	330	57.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	830	240	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	110		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 D
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8260D
Analytical Date: 05/25/23 21:38
Analyst: LAC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,4-Trimethylbenzene	64000		ug/kg	3300	560	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8260D
Analytical Date: 05/25/23 02:39
Analyst: JIC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	250	110	1
1,1-Dichloroethane	ND		ug/kg	50	7.2	1
Chloroform	ND		ug/kg	75	7.0	1
Carbon tetrachloride	ND		ug/kg	50	11.	1
1,2-Dichloropropane	ND		ug/kg	50	6.2	1
Dibromochloromethane	ND		ug/kg	50	7.0	1
1,1,2-Trichloroethane	ND		ug/kg	50	13.	1
Tetrachloroethene	1500		ug/kg	25	9.8	1
Chlorobenzene	ND		ug/kg	25	6.3	1
Trichlorofluoromethane	ND		ug/kg	200	35.	1
1,2-Dichloroethane	ND		ug/kg	50	13.	1
1,1,1-Trichloroethane	ND		ug/kg	25	8.3	1
Bromodichloromethane	ND		ug/kg	25	5.4	1
trans-1,3-Dichloropropene	ND		ug/kg	50	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9	1
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9	1
1,1-Dichloropropene	ND		ug/kg	25	7.9	1
Bromoform	ND		ug/kg	200	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3	1
Benzene	58		ug/kg	25	8.3	1
Toluene	540		ug/kg	50	27.	1
Ethylbenzene	1900		ug/kg	50	7.0	1
Chloromethane	ND		ug/kg	200	46.	1
Bromomethane	ND		ug/kg	100	29.	1
Vinyl chloride	ND		ug/kg	50	17.	1
Chloroethane	ND		ug/kg	100	22.	1
1,1-Dichloroethene	ND		ug/kg	50	12.	1
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 Date Collected: 05/12/23 11:00

Client ID: CONCRETE-1 Date Received: 05/12/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	25	6.8	1
1,2-Dichlorobenzene	ND		ug/kg	100	7.2	1
1,3-Dichlorobenzene	ND		ug/kg	100	7.4	1
1,4-Dichlorobenzene	ND		ug/kg	100	8.5	1
Methyl tert butyl ether	ND		ug/kg	100	10.	1
p/m-Xylene	7000		ug/kg	100	28.	1
o-Xylene	2700		ug/kg	50	14.	1
Xylenes, Total	9700		ug/kg	50	14.	1
cis-1,2-Dichloroethene	ND		ug/kg	50	8.7	1
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8	1
Dibromomethane	ND		ug/kg	100	12.	1
Styrene	13	J	ug/kg	50	9.8	1
Dichlorodifluoromethane	ND		ug/kg	500	46.	1
Acetone	ND		ug/kg	500	240	1
Carbon disulfide	ND		ug/kg	500	230	1
2-Butanone	ND		ug/kg	500	110	1
Vinyl acetate	ND		ug/kg	500	110	1
4-Methyl-2-pentanone	ND		ug/kg	500	64.	1
1,2,3-Trichloropropane	ND		ug/kg	100	6.3	1
2-Hexanone	ND		ug/kg	500	59.	1
Bromochloromethane	ND		ug/kg	100	10.	1
2,2-Dichloropropane	ND		ug/kg	100	10.	1
1,2-Dibromoethane	ND		ug/kg	50	14.	1
1,3-Dichloropropane	ND		ug/kg	100	8.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6	1
Bromobenzene	ND		ug/kg	100	7.2	1
n-Butylbenzene	20	J	ug/kg	50	8.3	1
sec-Butylbenzene	14	J	ug/kg	50	7.3	1
tert-Butylbenzene	ND		ug/kg	100	5.9	1
o-Chlorotoluene	ND		ug/kg	100	9.5	1
p-Chlorotoluene	ND		ug/kg	100	5.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.	1
Hexachlorobutadiene	ND		ug/kg	200	8.4	1
Isopropylbenzene	91		ug/kg	50	5.4	1
p-Isopropyltoluene	16	J	ug/kg	50	5.4	1
Naphthalene	42	J	ug/kg	200	32.	1
Acrylonitrile	ND		ug/kg	200	57.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	200		ug/kg	50	8.5	1
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.	1
1,3,5-Trimethylbenzene	390		ug/kg	100	9.6	1
1,2,4-Trimethylbenzene	780		ug/kg	100	17.	1
1,4-Dioxane	ND		ug/kg	4000	1700	1
p-Diethylbenzene	240		ug/kg	100	8.8	1
p-Ethyltoluene	1100		ug/kg	100	19.	1
1,2,4,5-Tetramethylbenzene	25	J	ug/kg	100	9.5	1
Ethyl ether	ND		ug/kg	100	17.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	94		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/26/23 15:25
Analyst: MKS
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	3.4		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.99	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Bromodichloromethane	ND		ug/kg	0.71	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.71	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.71	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.24	1
Benzene	ND		ug/kg	0.71	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.8	0.83	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.20	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13 Date Collected: 05/15/23 09:00

Client ID: SB-5 (3-5) Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.71	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.29	1
p/m-Xylene	ND		ug/kg	2.8	0.80	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	7.1	J	ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	8.1	J	ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	0.19	1
Bromobenzene	ND		ug/kg	2.8	0.21	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.48	1
1,4-Dioxane	ND		ug/kg	110	50.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.55	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.49	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	114		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/26/23 15:53
Analyst: MKS
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	6.0		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	7.0	J	ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	111		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/26/23 16:20
Analyst: MKS
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.32	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	4.2		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	111		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 05/26/23 16:47
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	1.9		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16 Date Collected: 05/15/23 11:45

Client ID: SB-6 (2-4) Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	0.71	J	ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	0.71	J	ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	112		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17
Client ID: CONCRETE-2
Sample Location: BKLYN, NY
Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8260D
Analytical Date: 05/26/23 17:15
Analyst: MKS
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	320		ug/kg	190	87.	1
1,1-Dichloroethane	ND		ug/kg	38	5.5	1
Chloroform	ND		ug/kg	57	5.3	1
Carbon tetrachloride	ND		ug/kg	38	8.7	1
1,2-Dichloropropane	ND		ug/kg	38	4.7	1
Dibromochloromethane	ND		ug/kg	38	5.3	1
1,1,2-Trichloroethane	ND		ug/kg	38	10.	1
Tetrachloroethene	3900		ug/kg	19	7.4	1
Chlorobenzene	ND		ug/kg	19	4.8	1
Trichlorofluoromethane	ND		ug/kg	150	26.	1
1,2-Dichloroethane	ND		ug/kg	38	9.7	1
1,1,1-Trichloroethane	ND		ug/kg	19	6.3	1
Bromodichloromethane	ND		ug/kg	19	4.1	1
trans-1,3-Dichloropropene	ND		ug/kg	38	10.	1
cis-1,3-Dichloropropene	ND		ug/kg	19	6.0	1
1,3-Dichloropropene, Total	ND		ug/kg	19	6.0	1
1,1-Dichloropropene	ND		ug/kg	19	6.0	1
Bromoform	ND		ug/kg	150	9.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	19	6.3	1
Benzene	28		ug/kg	19	6.3	1
Toluene	5000		ug/kg	38	20.	1
Ethylbenzene	19000	E	ug/kg	38	5.3	1
Chloromethane	ND		ug/kg	150	35.	1
Bromomethane	52	JB	ug/kg	76	22.	1
Vinyl chloride	ND		ug/kg	38	13.	1
Chloroethane	ND		ug/kg	76	17.	1
1,1-Dichloroethene	ND		ug/kg	38	9.0	1
trans-1,2-Dichloroethene	ND		ug/kg	57	5.2	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 Date Collected: 05/15/23 12:40

Client ID: CONCRETE-2 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	19	5.2	1
1,2-Dichlorobenzene	14	J	ug/kg	76	5.4	1
1,3-Dichlorobenzene	ND		ug/kg	76	5.6	1
1,4-Dichlorobenzene	11	J	ug/kg	76	6.5	1
Methyl tert butyl ether	ND		ug/kg	76	7.6	1
p/m-Xylene	110000	E	ug/kg	76	21.	1
o-Xylene	51000	E	ug/kg	38	11.	1
cis-1,2-Dichloroethene	ND		ug/kg	38	6.6	1
1,2-Dichloroethene, Total	ND		ug/kg	38	5.2	1
Dibromomethane	ND		ug/kg	76	9.0	1
Styrene	ND		ug/kg	38	7.4	1
Dichlorodifluoromethane	ND		ug/kg	380	35.	1
Acetone	9600		ug/kg	380	180	1
Carbon disulfide	ND		ug/kg	380	170	1
2-Butanone	3600		ug/kg	380	84.	1
Vinyl acetate	ND		ug/kg	380	82.	1
4-Methyl-2-pentanone	48000	E	ug/kg	380	48.	1
1,2,3-Trichloropropane	ND		ug/kg	76	4.8	1
2-Hexanone	ND		ug/kg	380	45.	1
Bromochloromethane	ND		ug/kg	76	7.8	1
2,2-Dichloropropane	ND		ug/kg	76	7.6	1
1,2-Dibromoethane	ND		ug/kg	38	10.	1
1,3-Dichloropropane	ND		ug/kg	76	6.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	19	5.0	1
Bromobenzene	ND		ug/kg	76	5.5	1
n-Butylbenzene	620		ug/kg	38	6.3	1
sec-Butylbenzene	220		ug/kg	38	5.5	1
tert-Butylbenzene	6.9	J	ug/kg	76	4.5	1
o-Chlorotoluene	ND		ug/kg	76	7.2	1
p-Chlorotoluene	ND		ug/kg	76	4.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	110	38.	1
Hexachlorobutadiene	12	J	ug/kg	150	6.4	1
Isopropylbenzene	880		ug/kg	38	4.1	1
p-Isopropyltoluene	630		ug/kg	38	4.1	1
Naphthalene	9300		ug/kg	150	25.	1
Acrylonitrile	ND		ug/kg	150	44.	1
n-Propylbenzene	1600		ug/kg	38	6.5	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17
Client ID: CONCRETE-2
Sample Location: BKLYN, NY
Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	76	12.	1
1,2,4-Trichlorobenzene	ND		ug/kg	76	10.	1
1,3,5-Trimethylbenzene	6400		ug/kg	76	7.3	1
1,2,4-Trimethylbenzene	20000	E	ug/kg	76	13.	1
1,4-Dioxane	ND		ug/kg	3000	1300	1
p-Diethylbenzene	ND		ug/kg	76	6.7	1
p-Ethyltoluene	10000		ug/kg	76	14.	1
1,2,4,5-Tetramethylbenzene	4800		ug/kg	76	7.2	1
Ethyl ether	ND		ug/kg	76	13.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	190	54.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8260D
Analytical Date: 05/28/23 19:55
Analyst: MKS
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Ethylbenzene	18000		ug/kg	380	53.	10
p/m-Xylene	85000		ug/kg	760	210	10
o-Xylene	39000		ug/kg	380	110	10
Xylenes, Total	120000		ug/kg	380	110	10
4-Methyl-2-pentanone	43000		ug/kg	3800	480	10
1,2,4-Trimethylbenzene	19000		ug/kg	760	130	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	104		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8260D
Analytical Date: 05/26/23 17:42
Analyst: MKS
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	0.38	J	ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	0.18	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18 Date Collected: 05/15/23 13:15

Client ID: CONCRETE-3 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	0.73	J	ug/kg	2.2	0.61	1
o-Xylene	0.42	J	ug/kg	1.1	0.32	1
Xylenes, Total	1.2	J	ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	37		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	5.1	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	1.2	J	ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	0.41	J	ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.24	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	**26**	Q	70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8260D
Analytical Date: 05/26/23 18:09
Analyst: MKS
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	230	110	1
1,1-Dichloroethane	ND		ug/kg	46	6.7	1
Chloroform	10	J	ug/kg	69	6.5	1
Carbon tetrachloride	ND		ug/kg	46	11.	1
1,2-Dichloropropane	ND		ug/kg	46	5.8	1
Dibromochloromethane	ND		ug/kg	46	6.5	1
1,1,2-Trichloroethane	ND		ug/kg	46	12.	1
Tetrachloroethene	760		ug/kg	23	9.1	1
Chlorobenzene	ND		ug/kg	23	5.9	1
Trichlorofluoromethane	ND		ug/kg	180	32.	1
1,2-Dichloroethane	ND		ug/kg	46	12.	1
1,1,1-Trichloroethane	ND		ug/kg	23	7.7	1
Bromodichloromethane	ND		ug/kg	23	5.0	1
trans-1,3-Dichloropropene	ND		ug/kg	46	13.	1
cis-1,3-Dichloropropene	ND		ug/kg	23	7.3	1
1,3-Dichloropropene, Total	ND		ug/kg	23	7.3	1
1,1-Dichloropropene	ND		ug/kg	23	7.4	1
Bromoform	ND		ug/kg	180	11.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	23	7.7	1
Benzene	ND		ug/kg	23	7.7	1
Toluene	50		ug/kg	46	25.	1
Ethylbenzene	ND		ug/kg	46	6.5	1
Chloromethane	ND		ug/kg	180	43.	1
Bromomethane	74	JB	ug/kg	93	27.	1
Vinyl chloride	ND		ug/kg	46	16.	1
Chloroethane	ND		ug/kg	93	21.	1
1,1-Dichloroethene	ND		ug/kg	46	11.	1
trans-1,2-Dichloroethene	ND		ug/kg	69	6.3	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 Date Collected: 05/15/23 13:45

Client ID: CONCRETE-4 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	23	6.3	1
1,2-Dichlorobenzene	ND		ug/kg	93	6.7	1
1,3-Dichlorobenzene	ND		ug/kg	93	6.8	1
1,4-Dichlorobenzene	ND		ug/kg	93	7.9	1
Methyl tert butyl ether	ND		ug/kg	93	9.3	1
p/m-Xylene	ND		ug/kg	93	26.	1
o-Xylene	ND		ug/kg	46	13.	1
Xylenes, Total	ND		ug/kg	46	13.	1
cis-1,2-Dichloroethene	ND		ug/kg	46	8.1	1
1,2-Dichloroethene, Total	ND		ug/kg	46	6.3	1
Dibromomethane	ND		ug/kg	93	11.	1
Styrene	ND		ug/kg	46	9.1	1
Dichlorodifluoromethane	ND		ug/kg	460	42.	1
Acetone	ND		ug/kg	460	220	1
Carbon disulfide	ND		ug/kg	460	210	1
2-Butanone	ND		ug/kg	460	100	1
Vinyl acetate	ND		ug/kg	460	100	1
4-Methyl-2-pentanone	ND		ug/kg	460	59.	1
1,2,3-Trichloropropane	ND		ug/kg	93	5.9	1
2-Hexanone	ND		ug/kg	460	55.	1
Bromochloromethane	ND		ug/kg	93	9.5	1
2,2-Dichloropropane	ND		ug/kg	93	9.4	1
1,2-Dibromoethane	ND		ug/kg	46	13.	1
1,3-Dichloropropane	ND		ug/kg	93	7.7	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	23	6.1	1
Bromobenzene	ND		ug/kg	93	6.7	1
n-Butylbenzene	ND		ug/kg	46	7.7	1
sec-Butylbenzene	ND		ug/kg	46	6.8	1
tert-Butylbenzene	ND		ug/kg	93	5.5	1
o-Chlorotoluene	ND		ug/kg	93	8.8	1
p-Chlorotoluene	ND		ug/kg	93	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	46.	1
Hexachlorobutadiene	ND		ug/kg	180	7.8	1
Isopropylbenzene	ND		ug/kg	46	5.0	1
p-Isopropyltoluene	ND		ug/kg	46	5.0	1
Naphthalene	ND		ug/kg	180	30.	1
Acrylonitrile	ND		ug/kg	180	53.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	46	7.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	93	15.	1
1,2,4-Trichlorobenzene	ND		ug/kg	93	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	93	8.9	1
1,2,4-Trimethylbenzene	ND		ug/kg	93	15.	1
1,4-Dioxane	ND		ug/kg	3700	1600	1
p-Diethylbenzene	ND		ug/kg	93	8.2	1
p-Ethyltoluene	ND		ug/kg	93	18.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	93	8.8	1
Ethyl ether	ND		ug/kg	93	16.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	230	66.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	105		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8260D
Analytical Date: 05/28/23 19:29
Analyst: MKS
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	10		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 Date Collected: 05/15/23 13:45

Client ID: CONCRETE-4 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	14		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	89		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-20
Client ID: TB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 00:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/25/23 13:46
Analyst: LAC

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

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-20
Client ID: TB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 00:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-20
Client ID: TB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 00:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	83		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	90		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/25/23 14:07
Analyst: LAC

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

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	84		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	90		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/23/23 21:45
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1782741-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/23/23 21:45
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1782741-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/23/23 21:45
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1782741-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	101		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/24/23 10:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,07 Batch: WG1782944-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/24/23 10:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,07 Batch: WG1782944-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/24/23 10:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,07 Batch: WG1782944-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/24/23 20:03
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12 Batch: WG1783305-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/24/23 20:03
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12 Batch: WG1783305-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	12	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/24/23 20:03
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 12 Batch: WG1783305-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

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

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 08:12
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1783388-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 08:12
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1783388-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 08:12
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 20-21 Batch: WG1783388-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	90		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 09:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,11 Batch: WG1783445-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH STREET
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 09:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,11 Batch: WG1783445-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 09:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04,11 Batch: WG1783445-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	128		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 09:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05-06,08 Batch: WG1783447-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 09:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05-06,08 Batch: WG1783447-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 09:20
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05-06,08 Batch: WG1783447-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	128		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 11:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1783854-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.68	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 11:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1783854-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 11:36
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 09 Batch: WG1783854-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.34	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	116		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 19:53
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 11 Batch: WG1783904-5					
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 21:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1783943-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 21:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1783943-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/25/23 21:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1783943-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	126		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/26/23 10:51
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 13-16,18 Batch: WG1784068-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	3.5		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/26/23 10:51
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 13-16,18 Batch: WG1784068-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/26/23 10:51
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 13-16,18 Batch: WG1784068-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	113		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/28/23 15:10
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 19 Batch: WG1784740-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/28/23 15:10
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 19 Batch: WG1784740-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/28/23 15:10
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 19 Batch: WG1784740-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.39	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.27	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/28/23 15:10
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG1784744-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/28/23 15:10
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG1784744-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/28/23 15:10
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG1784744-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	20	J	ug/kg	100	16.
1,2,4-Trichlorobenzene	14	J	ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/26/23 10:51
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,17,19 Batch: WG1784836-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	180		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/26/23 10:51
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,17,19 Batch: WG1784836-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/26/23 10:51
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,17,19 Batch: WG1784836-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1782741-3 WG1782741-4								
Methylene chloride	110		103		70-130	7		30
1,1-Dichloroethane	119		111		70-130	7		30
Chloroform	115		107		70-130	7		30
Carbon tetrachloride	116		106		70-130	9		30
1,2-Dichloropropane	116		107		70-130	8		30
Dibromochloromethane	102		95		70-130	7		30
1,1,2-Trichloroethane	103		96		70-130	7		30
Tetrachloroethene	110		105		70-130	5		30
Chlorobenzene	103		98		70-130	5		30
Trichlorofluoromethane	103		107		70-139	4		30
1,2-Dichloroethane	115		105		70-130	9		30
1,1,1-Trichloroethane	117		108		70-130	8		30
Bromodichloromethane	112		104		70-130	7		30
trans-1,3-Dichloropropene	101		95		70-130	6		30
cis-1,3-Dichloropropene	112		105		70-130	6		30
1,1-Dichloropropene	117		109		70-130	7		30
Bromoform	98		91		70-130	7		30
1,1,2,2-Tetrachloroethane	96		90		70-130	6		30
Benzene	115		106		70-130	8		30
Toluene	99		95		70-130	4		30
Ethylbenzene	102		99		70-130	3		30
Chloromethane	109		102		52-130	7		30
Bromomethane	127		120		57-147	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1782741-3 WG1782741-4								
Vinyl chloride	105		98		67-130	7		30
Chloroethane	113		107		50-151	5		30
1,1-Dichloroethene	117		108		65-135	8		30
trans-1,2-Dichloroethene	118		109		70-130	8		30
Trichloroethene	117		110		70-130	6		30
1,2-Dichlorobenzene	101		96		70-130	5		30
1,3-Dichlorobenzene	102		96		70-130	6		30
1,4-Dichlorobenzene	101		96		70-130	5		30
Methyl tert butyl ether	111		100		66-130	10		30
p/m-Xylene	104		100		70-130	4		30
o-Xylene	104		100		70-130	4		30
cis-1,2-Dichloroethene	116		108		70-130	7		30
Dibromomethane	111		100		70-130	10		30
Styrene	101		96		70-130	5		30
Dichlorodifluoromethane	86		79		30-146	8		30
Acetone	119		105		54-140	13		30
Carbon disulfide	117		108		59-130	8		30
2-Butanone	116		104		70-130	11		30
Vinyl acetate	113		106		70-130	6		30
4-Methyl-2-pentanone	99		92		70-130	7		30
1,2,3-Trichloropropane	93		87		68-130	7		30
2-Hexanone	93		85		70-130	9		30
Bromochloromethane	118		106		70-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1782741-3 WG1782741-4								
2,2-Dichloropropane	114		107		70-130	6		30
1,2-Dibromoethane	103		95		70-130	8		30
1,3-Dichloropropane	102		95		69-130	7		30
1,1,1,2-Tetrachloroethane	102		97		70-130	5		30
Bromobenzene	102		96		70-130	6		30
n-Butylbenzene	104		100		70-130	4		30
sec-Butylbenzene	103		97		70-130	6		30
tert-Butylbenzene	100		95		70-130	5		30
o-Chlorotoluene	114		108		70-130	5		30
p-Chlorotoluene	100		94		70-130	6		30
1,2-Dibromo-3-chloropropane	89		83		68-130	7		30
Hexachlorobutadiene	104		101		67-130	3		30
Isopropylbenzene	102		96		70-130	6		30
p-Isopropyltoluene	102		98		70-130	4		30
Naphthalene	94		87		70-130	8		30
Acrylonitrile	123		112		70-130	9		30
n-Propylbenzene	103		98		70-130	5		30
1,2,3-Trichlorobenzene	102		97		70-130	5		30
1,2,4-Trichlorobenzene	105		100		70-130	5		30
1,3,5-Trimethylbenzene	101		96		70-130	5		30
1,2,4-Trimethylbenzene	101		96		70-130	5		30
1,4-Dioxane	105		104		65-136	1		30
p-Diethylbenzene	101		96		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1782741-3 WG1782741-4								
p-Ethyltoluene	101		96		70-130	5		30
1,2,4,5-Tetramethylbenzene	100		95		70-130	5		30
Ethyl ether	112		104		67-130	7		30
trans-1,4-Dichloro-2-butene	101		98		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		103		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	96		94		70-130
Dibromofluoromethane	105		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,07 Batch: WG1782944-3 WG1782944-4								
Methylene chloride	110		108		70-130	2		30
1,1-Dichloroethane	128		124		70-130	3		30
Chloroform	125		123		70-130	2		30
Carbon tetrachloride	110		102		70-130	8		30
1,2-Dichloropropane	**132**	Q	130		70-130	2		30
Dibromochloromethane	101		102		70-130	1		30
1,1,2-Trichloroethane	105		108		70-130	3		30
Tetrachloroethene	91		85		70-130	7		30
Chlorobenzene	98		97		70-130	1		30
Trichlorofluoromethane	111		102		70-139	8		30
1,2-Dichloroethane	**136**	Q	**137**	Q	70-130	1		30
1,1,1-Trichloroethane	120		112		70-130	7		30
Bromodichloromethane	124		126		70-130	2		30
trans-1,3-Dichloropropene	108		111		70-130	3		30
cis-1,3-Dichloropropene	127		129		70-130	2		30
1,1-Dichloropropene	122		113		70-130	8		30
Bromoform	92		95		70-130	3		30
1,1,2,2-Tetrachloroethane	101		106		70-130	5		30
Benzene	122		119		70-130	2		30
Toluene	96		93		70-130	3		30
Ethylbenzene	100		96		70-130	4		30
Chloromethane	123		117		52-130	5		30
Bromomethane	102		97		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,07 Batch: WG1782944-3 WG1782944-4								
Vinyl chloride	115		104		67-130	10		30
Chloroethane	119		110		50-151	8		30
1,1-Dichloroethene	104		95		65-135	9		30
trans-1,2-Dichloroethene	114		105		70-130	8		30
Trichloroethene	118		111		70-130	6		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	93		93		70-130	0		30
1,4-Dichlorobenzene	93		93		70-130	0		30
Methyl tert butyl ether	**136**	Q	**139**	Q	66-130	2		30
p/m-Xylene	99		95		70-130	4		30
o-Xylene	101		98		70-130	3		30
cis-1,2-Dichloroethene	116		112		70-130	4		30
Dibromomethane	125		125		70-130	0		30
Styrene	100		100		70-130	0		30
Dichlorodifluoromethane	90		81		30-146	11		30
Acetone	137		**145**	Q	54-140	6		30
Carbon disulfide	115		106		59-130	8		30
2-Butanone	117		120		70-130	3		30
Vinyl acetate	126		**132**	Q	70-130	5		30
4-Methyl-2-pentanone	108		114		70-130	5		30
1,2,3-Trichloropropane	106		110		68-130	4		30
2-Hexanone	111		112		70-130	1		30
Bromochloromethane	116		119		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,07 Batch: WG1782944-3 WG1782944-4								
2,2-Dichloropropane	118		108		70-130	9		30
1,2-Dibromoethane	103		106		70-130	3		30
1,3-Dichloropropane	109		111		69-130	2		30
1,1,1,2-Tetrachloroethane	100		101		70-130	1		30
Bromobenzene	92		90		70-130	2		30
n-Butylbenzene	101		96		70-130	5		30
sec-Butylbenzene	97		91		70-130	6		30
tert-Butylbenzene	93		89		70-130	4		30
o-Chlorotoluene	120		118		70-130	2		30
p-Chlorotoluene	100		98		70-130	2		30
1,2-Dibromo-3-chloropropane	83		87		68-130	5		30
Hexachlorobutadiene	84		79		67-130	6		30
Isopropylbenzene	96		92		70-130	4		30
p-Isopropyltoluene	96		92		70-130	4		30
Naphthalene	93		99		70-130	6		30
Acrylonitrile	117		118		70-130	1		30
n-Propylbenzene	100		96		70-130	4		30
1,2,3-Trichlorobenzene	91		94		70-130	3		30
1,2,4-Trichlorobenzene	92		93		70-130	1		30
1,3,5-Trimethylbenzene	98		96		70-130	2		30
1,2,4-Trimethylbenzene	99		98		70-130	1		30
1,4-Dioxane	105		104		65-136	1		30
p-Diethylbenzene	95		92		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,07 Batch: WG1782944-3 WG1782944-4								
p-Ethyltoluene	98		94		70-130	4		30
1,2,4,5-Tetramethylbenzene	99		99		70-130	0		30
Ethyl ether	123		125		67-130	2		30
trans-1,4-Dichloro-2-butene	110		117		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	128		126		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	99		102		70-130
Dibromofluoromethane	111		110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12 Batch: WG1783305-3 WG1783305-4								
Methylene chloride	104		111		70-130	7		30
1,1-Dichloroethane	122		128		70-130	5		30
Chloroform	116		122		70-130	5		30
Carbon tetrachloride	100		105		70-130	5		30
1,2-Dichloropropane	125		**134**	Q	70-130	7		30
Dibromochloromethane	92		99		70-130	7		30
1,1,2-Trichloroethane	99		105		70-130	6		30
Tetrachloroethene	84		85		70-130	1		30
Chlorobenzene	92		96		70-130	4		30
Trichlorofluoromethane	103		105		70-139	2		30
1,2-Dichloroethane	129		**140**	Q	70-130	8		30
1,1,1-Trichloroethane	113		116		70-130	3		30
Bromodichloromethane	119		126		70-130	6		30
trans-1,3-Dichloropropene	101		107		70-130	6		30
cis-1,3-Dichloropropene	123		**131**	Q	70-130	6		30
1,1-Dichloropropene	116		118		70-130	2		30
Bromoform	82		89		70-130	8		30
1,1,2,2-Tetrachloroethane	95		103		70-130	8		30
Benzene	116		121		70-130	4		30
Toluene	90		92		70-130	2		30
Ethylbenzene	93		95		70-130	2		30
Chloromethane	118		120		52-130	2		30
Bromomethane	97		100		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12 Batch: WG1783305-3 WG1783305-4								
Vinyl chloride	106		108		67-130	2		30
Chloroethane	112		113		50-151	1		30
1,1-Dichloroethene	96		98		65-135	2		30
trans-1,2-Dichloroethene	107		109		70-130	2		30
Trichloroethene	108		113		70-130	5		30
1,2-Dichlorobenzene	87		94		70-130	8		30
1,3-Dichlorobenzene	88		92		70-130	4		30
1,4-Dichlorobenzene	88		91		70-130	3		30
Methyl tert butyl ether	130		**141**	Q	66-130	8		30
p/m-Xylene	92		94		70-130	2		30
o-Xylene	94		98		70-130	4		30
cis-1,2-Dichloroethene	108		115		70-130	6		30
Dibromomethane	116		127		70-130	9		30
Styrene	95		98		70-130	3		30
Dichlorodifluoromethane	81		83		30-146	2		30
Acetone	127		**149**	Q	54-140	16		30
Carbon disulfide	108		110		59-130	2		30
2-Butanone	108		124		70-130	14		30
Vinyl acetate	**131**	Q	**145**	Q	70-130	10		30
4-Methyl-2-pentanone	101		108		70-130	7		30
1,2,3-Trichloropropane	100		108		68-130	8		30
2-Hexanone	104		111		70-130	7		30
Bromochloromethane	109		121		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12 Batch: WG1783305-3 WG1783305-4								
2,2-Dichloropropane	112		115		70-130	3		30
1,2-Dibromoethane	96		101		70-130	5		30
1,3-Dichloropropane	102		110		69-130	8		30
1,1,1,2-Tetrachloroethane	94		98		70-130	4		30
Bromobenzene	85		91		70-130	7		30
n-Butylbenzene	94		97		70-130	3		30
sec-Butylbenzene	89		92		70-130	3		30
tert-Butylbenzene	86		89		70-130	3		30
o-Chlorotoluene	99		104		70-130	5		30
p-Chlorotoluene	93		98		70-130	5		30
1,2-Dibromo-3-chloropropane	75		82		68-130	9		30
Hexachlorobutadiene	78		79		67-130	1		30
Isopropylbenzene	89		92		70-130	3		30
p-Isopropyltoluene	89		93		70-130	4		30
Naphthalene	87		94		70-130	8		30
Acrylonitrile	109		119		70-130	9		30
n-Propylbenzene	92		96		70-130	4		30
1,2,3-Trichlorobenzene	88		92		70-130	4		30
1,2,4-Trichlorobenzene	89		93		70-130	4		30
1,3,5-Trimethylbenzene	92		96		70-130	4		30
1,2,4-Trimethylbenzene	92		97		70-130	5		30
1,4-Dioxane	100		108		65-136	8		30
p-Diethylbenzene	88		91		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 12 Batch: WG1783305-3 WG1783305-4								
p-Ethyltoluene	92		95		70-130	3		30
1,2,4,5-Tetramethylbenzene	94		98		70-130	4		30
Ethyl ether	119		126		67-130	6		30
trans-1,4-Dichloro-2-butene	106		115		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	128		127		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	111		111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1783388-3 WG1783388-4								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	97		98		70-130	1		20
Chloroform	94		96		70-130	2		20
Carbon tetrachloride	94		96		63-132	2		20
1,2-Dichloropropane	95		94		70-130	1		20
Dibromochloromethane	81		87		63-130	7		20
1,1,2-Trichloroethane	88		90		70-130	2		20
Tetrachloroethene	92		97		70-130	5		20
Chlorobenzene	92		96		75-130	4		20
Trichlorofluoromethane	95		98		62-150	3		20
1,2-Dichloroethane	92		96		70-130	4		20
1,1,1-Trichloroethane	91		97		67-130	6		20
Bromodichloromethane	88		89		67-130	1		20
trans-1,3-Dichloropropene	83		86		70-130	4		20
cis-1,3-Dichloropropene	86		88		70-130	2		20
1,1-Dichloropropene	95		96		70-130	1		20
Bromoform	74		76		54-136	3		20
1,1,2,2-Tetrachloroethane	83		89		67-130	7		20
Benzene	95		97		70-130	2		20
Toluene	92		95		70-130	3		20
Ethylbenzene	89		92		70-130	3		20
Chloromethane	82		86		64-130	5		20
Bromomethane	48		52		39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1783388-3 WG1783388-4								
Vinyl chloride	93		97		55-140	4		20
Chloroethane	98		100		55-138	2		20
1,1-Dichloroethene	96		99		61-145	3		20
trans-1,2-Dichloroethene	95		97		70-130	2		20
Trichloroethene	80		91		70-130	13		20
1,2-Dichlorobenzene	91		95		70-130	4		20
1,3-Dichlorobenzene	92		96		70-130	4		20
1,4-Dichlorobenzene	91		94		70-130	3		20
Methyl tert butyl ether	82		88		63-130	7		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	93		97		70-130	4		20
Dibromomethane	89		94		70-130	5		20
1,2,3-Trichloropropane	87		90		64-130	3		20
Acrylonitrile	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	78		82		36-147	5		20
Acetone	81		80		58-148	1		20
Carbon disulfide	94		96		51-130	2		20
2-Butanone	70		78		63-138	11		20
Vinyl acetate	84		96		70-130	13		20
4-Methyl-2-pentanone	75		82		59-130	9		20
2-Hexanone	73		79		57-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1783388-3 WG1783388-4								
Bromochloromethane	92		94		70-130	2		20
2,2-Dichloropropane	100		97		63-133	3		20
1,2-Dibromoethane	90		94		70-130	4		20
1,3-Dichloropropane	86		92		70-130	7		20
1,1,1,2-Tetrachloroethane	93		96		64-130	3		20
Bromobenzene	88		92		70-130	4		20
n-Butylbenzene	95		100		53-136	5		20
sec-Butylbenzene	94		98		70-130	4		20
tert-Butylbenzene	94		96		70-130	2		20
o-Chlorotoluene	93		94		70-130	1		20
p-Chlorotoluene	90		92		70-130	2		20
1,2-Dibromo-3-chloropropane	78		85		41-144	9		20
Hexachlorobutadiene	93		97		63-130	4		20
Isopropylbenzene	90		92		70-130	2		20
p-Isopropyltoluene	92		96		70-130	4		20
Naphthalene	79		85		70-130	7		20
n-Propylbenzene	90		94		69-130	4		20
1,2,3-Trichlorobenzene	87		93		70-130	7		20
1,2,4-Trichlorobenzene	93		95		70-130	2		20
1,3,5-Trimethylbenzene	93		96		64-130	3		20
1,2,4-Trimethylbenzene	92		96		70-130	4		20
1,4-Dioxane	80		80		56-162	0		20
p-Diethylbenzene	94		97		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 20-21 Batch: WG1783388-3 WG1783388-4								
p-Ethyltoluene	91		93		70-130	2		20
1,2,4,5-Tetramethylbenzene	90		92		70-130	2		20
Ethyl ether	85		89		59-134	5		20
trans-1,4-Dichloro-2-butene	71		**65**	Q	70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		92		70-130
Toluene-d8	88		89		70-130
4-Bromofluorobenzene	85		84		70-130
Dibromofluoromethane	90		90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,11 Batch: WG1783445-3 WG1783445-4								
Methylene chloride	99		98		70-130	1		30
1,1-Dichloroethane	106		103		70-130	3		30
Chloroform	110		106		70-130	4		30
Carbon tetrachloride	129		128		70-130	1		30
1,2-Dichloropropane	109		108		70-130	1		30
Dibromochloromethane	96		99		70-130	3		30
1,1,2-Trichloroethane	90		92		70-130	2		30
Tetrachloroethene	96		94		70-130	2		30
Chlorobenzene	97		97		70-130	0		30
Trichlorofluoromethane	128		126		70-139	2		30
1,2-Dichloroethane	106		106		70-130	0		30
1,1,1-Trichloroethane	123		121		70-130	2		30
Bromodichloromethane	121		120		70-130	1		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	118		118		70-130	0		30
1,1-Dichloropropene	103		101		70-130	2		30
Bromoform	90		93		70-130	3		30
1,1,2,2-Tetrachloroethane	**69**	Q	71		70-130	3		30
Benzene	115		113		70-130	2		30
Toluene	87		88		70-130	1		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	102		98		52-130	4		30
Bromomethane	118		119		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,11 Batch: WG1783445-3 WG1783445-4								
Vinyl chloride	109		104		67-130	5		30
Chloroethane	104		104		50-151	0		30
1,1-Dichloroethene	111		104		65-135	7		30
trans-1,2-Dichloroethene	110		104		70-130	6		30
Trichloroethene	110		110		70-130	0		30
1,2-Dichlorobenzene	111		89		70-130	22		30
1,3-Dichlorobenzene	89		90		70-130	1		30
1,4-Dichlorobenzene	89		89		70-130	0		30
Methyl tert butyl ether	107		110		66-130	3		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	106		105		70-130	1		30
Dibromomethane	111		114		70-130	3		30
Styrene	97		97		70-130	0		30
Dichlorodifluoromethane	81		80		30-146	1		30
Acetone	108		110		54-140	2		30
Carbon disulfide	111		105		59-130	6		30
2-Butanone	89		91		70-130	2		30
Vinyl acetate	102		106		70-130	4		30
4-Methyl-2-pentanone	79		82		70-130	4		30
1,2,3-Trichloropropane	75		76		68-130	1		30
2-Hexanone	80		85		70-130	6		30
Bromochloromethane	117		118		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,11 Batch: WG1783445-3 WG1783445-4								
2,2-Dichloropropane	114		109		70-130	4		30
1,2-Dibromoethane	83		86		70-130	4		30
1,3-Dichloropropane	86		89		69-130	3		30
1,1,1,2-Tetrachloroethane	100		102		70-130	2		30
Bromobenzene	87		87		70-130	0		30
n-Butylbenzene	88		87		70-130	1		30
sec-Butylbenzene	84		83		70-130	1		30
tert-Butylbenzene	85		84		70-130	1		30
o-Chlorotoluene	81		79		70-130	3		30
p-Chlorotoluene	81		80		70-130	1		30
1,2-Dibromo-3-chloropropane	112		92		68-130	20		30
Hexachlorobutadiene	108		99		67-130	9		30
Isopropylbenzene	82		81		70-130	1		30
p-Isopropyltoluene	88		87		70-130	1		30
Naphthalene	92		84		70-130	9		30
Acrylonitrile	102		103		70-130	1		30
n-Propylbenzene	82		82		70-130	0		30
1,2,3-Trichlorobenzene	99		90		70-130	10		30
1,2,4-Trichlorobenzene	98		92		70-130	6		30
1,3,5-Trimethylbenzene	87		87		70-130	0		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30
1,4-Dioxane	105		110		65-136	5		30
p-Diethylbenzene	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04,11 Batch: WG1783445-3 WG1783445-4								
p-Ethyltoluene	85		84		70-130	1		30
1,2,4,5-Tetramethylbenzene	98		77		70-130	24		30
Ethyl ether	108		117		67-130	8		30
trans-1,4-Dichloro-2-butene	74		80		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	90		91		70-130
4-Bromofluorobenzene	82		80		70-130
Dibromofluoromethane	108		109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-06,08 Batch: WG1783447-3 WG1783447-4								
Methylene chloride	99		98		70-130	1		30
1,1-Dichloroethane	106		103		70-130	3		30
Chloroform	110		106		70-130	4		30
Carbon tetrachloride	129		128		70-130	1		30
1,2-Dichloropropane	109		108		70-130	1		30
Dibromochloromethane	96		99		70-130	3		30
1,1,2-Trichloroethane	90		92		70-130	2		30
Tetrachloroethene	96		94		70-130	2		30
Chlorobenzene	97		97		70-130	0		30
Trichlorofluoromethane	128		126		70-139	2		30
1,2-Dichloroethane	106		106		70-130	0		30
1,1,1-Trichloroethane	123		121		70-130	2		30
Bromodichloromethane	121		120		70-130	1		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	118		118		70-130	0		30
1,1-Dichloropropene	103		101		70-130	2		30
Bromoform	90		93		70-130	3		30
1,1,2,2-Tetrachloroethane	**69**	Q	71		70-130	3		30
Benzene	115		113		70-130	2		30
Toluene	87		88		70-130	1		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	102		98		52-130	4		30
Bromomethane	118		119		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-06,08 Batch: WG1783447-3 WG1783447-4								
Vinyl chloride	109		104		67-130	5		30
Chloroethane	104		104		50-151	0		30
1,1-Dichloroethene	111		104		65-135	7		30
trans-1,2-Dichloroethene	110		104		70-130	6		30
Trichloroethene	110		110		70-130	0		30
1,2-Dichlorobenzene	111		89		70-130	22		30
1,3-Dichlorobenzene	89		90		70-130	1		30
1,4-Dichlorobenzene	89		89		70-130	0		30
Methyl tert butyl ether	107		110		66-130	3		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	106		105		70-130	1		30
Dibromomethane	111		114		70-130	3		30
Styrene	97		97		70-130	0		30
Dichlorodifluoromethane	81		80		30-146	1		30
Acetone	108		110		54-140	2		30
Carbon disulfide	111		105		59-130	6		30
2-Butanone	89		91		70-130	2		30
Vinyl acetate	102		106		70-130	4		30
4-Methyl-2-pentanone	79		82		70-130	4		30
1,2,3-Trichloropropane	75		76		68-130	1		30
2-Hexanone	80		85		70-130	6		30
Bromochloromethane	117		118		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-06,08 Batch: WG1783447-3 WG1783447-4								
2,2-Dichloropropane	114		109		70-130	4		30
1,2-Dibromoethane	83		86		70-130	4		30
1,3-Dichloropropane	86		89		69-130	3		30
1,1,1,2-Tetrachloroethane	100		102		70-130	2		30
Bromobenzene	87		87		70-130	0		30
n-Butylbenzene	88		87		70-130	1		30
sec-Butylbenzene	84		83		70-130	1		30
tert-Butylbenzene	85		84		70-130	1		30
o-Chlorotoluene	81		79		70-130	3		30
p-Chlorotoluene	81		80		70-130	1		30
1,2-Dibromo-3-chloropropane	112		92		68-130	20		30
Hexachlorobutadiene	108		99		67-130	9		30
Isopropylbenzene	82		81		70-130	1		30
p-Isopropyltoluene	88		87		70-130	1		30
Naphthalene	92		84		70-130	9		30
Acrylonitrile	102		103		70-130	1		30
n-Propylbenzene	82		82		70-130	0		30
1,2,3-Trichlorobenzene	99		90		70-130	10		30
1,2,4-Trichlorobenzene	98		92		70-130	6		30
1,3,5-Trimethylbenzene	87		87		70-130	0		30
1,2,4-Trimethylbenzene	88		86		70-130	2		30
1,4-Dioxane	105		110		65-136	5		30
p-Diethylbenzene	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-06,08 Batch: WG1783447-3 WG1783447-4								
p-Ethyltoluene	85		84		70-130	1		30
1,2,4,5-Tetramethylbenzene	98		77		70-130	24		30
Ethyl ether	108		117		67-130	8		30
trans-1,4-Dichloro-2-butene	74		80		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	90		90		70-130
4-Bromofluorobenzene	82		80		70-130
Dibromofluoromethane	109		109		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1783854-3 WG1783854-4								
Methylene chloride	110		111		70-130	1		30
1,1-Dichloroethane	107		102		70-130	5		30
Chloroform	118		112		70-130	5		30
Carbon tetrachloride	120		114		70-130	5		30
1,2-Dichloropropane	103		100		70-130	3		30
Dibromochloromethane	113		111		70-130	2		30
1,1,2-Trichloroethane	102		103		70-130	1		30
Tetrachloroethene	115		113		70-130	2		30
Chlorobenzene	106		106		70-130	0		30
Trichlorofluoromethane	118		117		70-139	1		30
1,2-Dichloroethane	118		114		70-130	3		30
1,1,1-Trichloroethane	125		119		70-130	5		30
Bromodichloromethane	117		113		70-130	3		30
trans-1,3-Dichloropropene	98		98		70-130	0		30
cis-1,3-Dichloropropene	111		106		70-130	5		30
1,1-Dichloropropene	111		107		70-130	4		30
Bromoform	110		105		70-130	5		30
1,1,2,2-Tetrachloroethane	95		83		70-130	13		30
Benzene	113		108		70-130	5		30
Toluene	97		95		70-130	2		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	97		91		52-130	6		30
Bromomethane	132		132		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1783854-3 WG1783854-4								
Vinyl chloride	97		92		67-130	5		30
Chloroethane	94		92		50-151	2		30
1,1-Dichloroethene	109		105		65-135	4		30
trans-1,2-Dichloroethene	128		118		70-130	8		30
Trichloroethene	116		122		70-130	5		30
1,2-Dichlorobenzene	104		100		70-130	4		30
1,3-Dichlorobenzene	103		99		70-130	4		30
1,4-Dichlorobenzene	102		98		70-130	4		30
Methyl tert butyl ether	**136**	Q	105		66-130	26		30
p/m-Xylene	106		104		70-130	2		30
o-Xylene	105		105		70-130	0		30
cis-1,2-Dichloroethene	117		110		70-130	6		30
Dibromomethane	120		115		70-130	4		30
Styrene	106		105		70-130	1		30
Dichlorodifluoromethane	100		96		30-146	4		30
Acetone	126		133		54-140	5		30
Carbon disulfide	98		96		59-130	2		30
2-Butanone	112		101		70-130	10		30
Vinyl acetate	114		84		70-130	30		30
4-Methyl-2-pentanone	91		83		70-130	9		30
1,2,3-Trichloropropane	87		84		68-130	4		30
2-Hexanone	99		92		70-130	7		30
Bromochloromethane	126		124		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1783854-3 WG1783854-4								
2,2-Dichloropropane	107		103		70-130	4		30
1,2-Dibromoethane	114		109		70-130	4		30
1,3-Dichloropropane	101		100		69-130	1		30
1,1,1,2-Tetrachloroethane	112		112		70-130	0		30
Bromobenzene	102		99		70-130	3		30
n-Butylbenzene	101		95		70-130	6		30
sec-Butylbenzene	98		92		70-130	6		30
tert-Butylbenzene	100		95		70-130	5		30
o-Chlorotoluene	96		92		70-130	4		30
p-Chlorotoluene	96		92		70-130	4		30
1,2-Dibromo-3-chloropropane	104		96		68-130	8		30
Hexachlorobutadiene	100		95		67-130	5		30
Isopropylbenzene	96		91		70-130	5		30
p-Isopropyltoluene	103		97		70-130	6		30
Naphthalene	99		93		70-130	6		30
Acrylonitrile	110		102		70-130	8		30
n-Propylbenzene	97		92		70-130	5		30
1,2,3-Trichlorobenzene	104		100		70-130	4		30
1,2,4-Trichlorobenzene	104		99		70-130	5		30
1,3,5-Trimethylbenzene	99		93		70-130	6		30
1,2,4-Trimethylbenzene	98		93		70-130	5		30
1,4-Dioxane	108		106		65-136	2		30
p-Diethylbenzene	104		98		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET
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Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 09 Batch: WG1783854-3 WG1783854-4								
p-Ethyltoluene	98		94		70-130	4		30
1,2,4,5-Tetramethylbenzene	99		93		70-130	6		30
Ethyl ether	105		101		67-130	4		30
trans-1,4-Dichloro-2-butene	96		87		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		102		70-130
Toluene-d8	93		96		70-130
4-Bromofluorobenzene	87		85		70-130
Dibromofluoromethane	109		105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

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Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 11 Batch: WG1783904-3 WG1783904-4								
1,2,4-Trimethylbenzene	91		96		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		102		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	93		92		70-130
Dibromofluoromethane	110		111		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1783943-3 WG1783943-4								
Methylene chloride	102		106		70-130	4		30
1,1-Dichloroethane	106		111		70-130	5		30
Chloroform	115		118		70-130	3		30
Carbon tetrachloride	**134**	Q	**138**	Q	70-130	3		30
1,2-Dichloropropane	111		116		70-130	4		30
Dibromochloromethane	98		103		70-130	5		30
1,1,2-Trichloroethane	90		94		70-130	4		30
Tetrachloroethene	98		102		70-130	4		30
Chlorobenzene	98		102		70-130	4		30
Trichlorofluoromethane	128		127		70-139	1		30
1,2-Dichloroethane	107		111		70-130	4		30
1,1,1-Trichloroethane	123		128		70-130	4		30
Bromodichloromethane	126		127		70-130	1		30
trans-1,3-Dichloropropene	93		95		70-130	2		30
cis-1,3-Dichloropropene	122		125		70-130	2		30
1,1-Dichloropropene	104		109		70-130	5		30
Bromoform	89		94		70-130	5		30
1,1,2,2-Tetrachloroethane	**64**	Q	**68**	Q	70-130	6		30
Benzene	116		120		70-130	3		30
Toluene	90		93		70-130	3		30
Ethylbenzene	91		94		70-130	3		30
Chloromethane	113		121		52-130	7		30
Bromomethane	119		132		57-147	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1783943-3 WG1783943-4								
Vinyl chloride	117		122		67-130	4		30
Chloroethane	108		100		50-151	8		30
1,1-Dichloroethene	112		**142**	Q	65-135	24		30
trans-1,2-Dichloroethene	111		114		70-130	3		30
Trichloroethene	120		122		70-130	2		30
1,2-Dichlorobenzene	90		94		70-130	4		30
1,3-Dichlorobenzene	89		94		70-130	5		30
1,4-Dichlorobenzene	90		94		70-130	4		30
Methyl tert butyl ether	113		113		66-130	0		30
p/m-Xylene	101		103		70-130	2		30
o-Xylene	99		103		70-130	4		30
cis-1,2-Dichloroethene	110		111		70-130	1		30
Dibromomethane	114		116		70-130	2		30
Styrene	98		102		70-130	4		30
Dichlorodifluoromethane	82		92		30-146	11		30
Acetone	110		111		54-140	1		30
Carbon disulfide	110		**138**	Q	59-130	23		30
2-Butanone	89		92		70-130	3		30
Vinyl acetate	89		90		70-130	1		30
4-Methyl-2-pentanone	77		80		70-130	4		30
1,2,3-Trichloropropane	73		77		68-130	5		30
2-Hexanone	76		78		70-130	3		30
Bromochloromethane	122		127		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1783943-3 WG1783943-4								
2,2-Dichloropropane	112		113		70-130	1		30
1,2-Dibromoethane	84		87		70-130	4		30
1,3-Dichloropropane	87		91		69-130	4		30
1,1,1,2-Tetrachloroethane	103		107		70-130	4		30
Bromobenzene	88		92		70-130	4		30
n-Butylbenzene	86		90		70-130	5		30
sec-Butylbenzene	83		87		70-130	5		30
tert-Butylbenzene	84		89		70-130	6		30
o-Chlorotoluene	80		83		70-130	4		30
p-Chlorotoluene	80		84		70-130	5		30
1,2-Dibromo-3-chloropropane	85		90		68-130	6		30
Hexachlorobutadiene	100		106		67-130	6		30
Isopropylbenzene	81		85		70-130	5		30
p-Isopropyltoluene	88		91		70-130	3		30
Naphthalene	82		85		70-130	4		30
Acrylonitrile	101		101		70-130	0		30
n-Propylbenzene	81		85		70-130	5		30
1,2,3-Trichlorobenzene	90		94		70-130	4		30
1,2,4-Trichlorobenzene	92		95		70-130	3		30
1,3,5-Trimethylbenzene	87		90		70-130	3		30
1,2,4-Trimethylbenzene	86		90		70-130	5		30
1,4-Dioxane	95		104		65-136	9		30
p-Diethylbenzene	89		94		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1783943-3 WG1783943-4								
p-Ethyltoluene	84		88		70-130	5		30
1,2,4,5-Tetramethylbenzene	80		83		70-130	4		30
Ethyl ether	112		126		67-130	12		30
trans-1,4-Dichloro-2-butene	74		79		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	90		92		70-130
4-Bromofluorobenzene	80		81		70-130
Dibromofluoromethane	109		110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 13-16,18 Batch: WG1784068-3 WG1784068-4								
Methylene chloride	106		85		70-130	22		30
1,1-Dichloroethane	105		82		70-130	25		30
Chloroform	115		91		70-130	23		30
Carbon tetrachloride	112		88		70-130	24		30
1,2-Dichloropropane	99		80		70-130	21		30
Dibromochloromethane	107		86		70-130	22		30
1,1,2-Trichloroethane	100		80		70-130	22		30
Tetrachloroethene	108		86		70-130	23		30
Chlorobenzene	102		82		70-130	22		30
Trichlorofluoromethane	109		85		70-139	25		30
1,2-Dichloroethane	113		93		70-130	19		30
1,1,1-Trichloroethane	120		93		70-130	25		30
Bromodichloromethane	110		90		70-130	20		30
trans-1,3-Dichloropropene	96		78		70-130	21		30
cis-1,3-Dichloropropene	106		85		70-130	22		30
1,1-Dichloropropene	107		83		70-130	25		30
Bromoform	101		80		70-130	23		30
1,1,2,2-Tetrachloroethane	88		71		70-130	21		30
Benzene	108		85		70-130	24		30
Toluene	93		74		70-130	23		30
Ethylbenzene	97		78		70-130	22		30
Chloromethane	94		74		52-130	24		30
Bromomethane	125		98		57-147	24		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 13-16,18 Batch: WG1784068-3 WG1784068-4								
Vinyl chloride	93		71		67-130	27		30
Chloroethane	90		69		50-151	26		30
1,1-Dichloroethene	101		79		65-135	24		30
trans-1,2-Dichloroethene	123		100		70-130	21		30
Trichloroethene	115		90		70-130	24		30
1,2-Dichlorobenzene	99		79		70-130	22		30
1,3-Dichlorobenzene	98		80		70-130	20		30
1,4-Dichlorobenzene	99		80		70-130	21		30
Methyl tert butyl ether	**133**	Q	108		66-130	21		30
p/m-Xylene	100		82		70-130	20		30
o-Xylene	100		80		70-130	22		30
cis-1,2-Dichloroethene	111		88		70-130	23		30
Dibromomethane	114		93		70-130	20		30
Styrene	100		80		70-130	22		30
Dichlorodifluoromethane	93		72		30-146	25		30
Acetone	125		104		54-140	18		30
Carbon disulfide	92		72		59-130	24		30
2-Butanone	106		86		70-130	21		30
Vinyl acetate	108		92		70-130	16		30
4-Methyl-2-pentanone	85		**67**	Q	70-130	24		30
1,2,3-Trichloropropane	84		**67**	Q	68-130	23		30
2-Hexanone	94		76		70-130	21		30
Bromochloromethane	123		97		70-130	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 13-16,18 Batch: WG1784068-3 WG1784068-4								
2,2-Dichloropropane	108		86		70-130	23		30
1,2-Dibromoethane	108		87		70-130	22		30
1,3-Dichloropropane	97		78		69-130	22		30
1,1,1,2-Tetrachloroethane	106		87		70-130	20		30
Bromobenzene	99		79		70-130	22		30
n-Butylbenzene	95		75		70-130	24		30
sec-Butylbenzene	93		73		70-130	24		30
tert-Butylbenzene	94		75		70-130	22		30
o-Chlorotoluene	91		73		70-130	22		30
p-Chlorotoluene	93		73		70-130	24		30
1,2-Dibromo-3-chloropropane	98		78		68-130	23		30
Hexachlorobutadiene	96		75		67-130	25		30
Isopropylbenzene	90		71		70-130	24		30
p-Isopropyltoluene	97		76		70-130	24		30
Naphthalene	94		76		70-130	21		30
Acrylonitrile	105		85		70-130	21		30
n-Propylbenzene	92		72		70-130	24		30
1,2,3-Trichlorobenzene	100		79		70-130	23		30
1,2,4-Trichlorobenzene	98		80		70-130	20		30
1,3,5-Trimethylbenzene	94		74		70-130	24		30
1,2,4-Trimethylbenzene	93		74		70-130	23		30
1,4-Dioxane	102		80		65-136	24		30
p-Diethylbenzene	97		78		70-130	22		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 13-16,18 Batch: WG1784068-3 WG1784068-4								
p-Ethyltoluene	92		73		70-130	23		30
1,2,4,5-Tetramethylbenzene	92		74		70-130	22		30
Ethyl ether	100		81		67-130	21		30
trans-1,4-Dichloro-2-butene	94		74		70-130	24		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	92		94		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	107		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1784740-3 WG1784740-4								
Methylene chloride	103		102		70-130	1		30
1,1-Dichloroethane	109		108		70-130	1		30
Chloroform	108		109		70-130	1		30
Carbon tetrachloride	106		106		70-130	0		30
1,2-Dichloropropane	108		106		70-130	2		30
Dibromochloromethane	95		94		70-130	1		30
1,1,2-Trichloroethane	93		90		70-130	3		30
Tetrachloroethene	101		100		70-130	1		30
Chlorobenzene	98		98		70-130	0		30
Trichlorofluoromethane	98		98		70-139	0		30
1,2-Dichloroethane	104		104		70-130	0		30
1,1,1-Trichloroethane	112		111		70-130	1		30
Bromodichloromethane	108		106		70-130	2		30
trans-1,3-Dichloropropene	98		96		70-130	2		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	110		110		70-130	0		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	85		84		70-130	1		30
Benzene	109		108		70-130	1		30
Toluene	98		96		70-130	2		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	85		83		52-130	2		30
Bromomethane	103		102		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1784740-3 WG1784740-4								
Vinyl chloride	83		82		67-130	1		30
Chloroethane	97		96		50-151	1		30
1,1-Dichloroethene	106		105		65-135	1		30
trans-1,2-Dichloroethene	110		111		70-130	1		30
Trichloroethene	113		110		70-130	3		30
1,2-Dichlorobenzene	95		94		70-130	1		30
1,3-Dichlorobenzene	97		96		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	100		98		70-130	2		30
o-Xylene	99		98		70-130	1		30
cis-1,2-Dichloroethene	108		112		70-130	4		30
Dibromomethane	103		102		70-130	1		30
Styrene	101		99		70-130	2		30
Dichlorodifluoromethane	67		67		30-146	0		30
Acetone	72		72		54-140	0		30
Carbon disulfide	99		99		59-130	0		30
2-Butanone	73		75		70-130	3		30
Vinyl acetate	79		79		70-130	0		30
4-Methyl-2-pentanone	86		86		70-130	0		30
1,2,3-Trichloropropane	85		83		68-130	2		30
2-Hexanone	75		73		70-130	3		30
Bromochloromethane	108		107		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1784740-3 WG1784740-4								
2,2-Dichloropropane	112		112		70-130	0		30
1,2-Dibromoethane	97		96		70-130	1		30
1,3-Dichloropropane	94		93		69-130	1		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	96		95		70-130	1		30
n-Butylbenzene	97		95		70-130	2		30
sec-Butylbenzene	97		97		70-130	0		30
tert-Butylbenzene	99		99		70-130	0		30
o-Chlorotoluene	98		98		70-130	0		30
p-Chlorotoluene	96		97		70-130	1		30
1,2-Dibromo-3-chloropropane	84		83		68-130	1		30
Hexachlorobutadiene	103		105		67-130	2		30
Isopropylbenzene	98		98		70-130	0		30
p-Isopropyltoluene	99		98		70-130	1		30
Naphthalene	88		88		70-130	0		30
Acrylonitrile	84		83		70-130	1		30
n-Propylbenzene	100		100		70-130	0		30
1,2,3-Trichlorobenzene	97		97		70-130	0		30
1,2,4-Trichlorobenzene	99		97		70-130	2		30
1,3,5-Trimethylbenzene	96		95		70-130	1		30
1,2,4-Trimethylbenzene	97		96		70-130	1		30
1,4-Dioxane	**203**	Q	**199**	Q	65-136	2		30
p-Diethylbenzene	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1784740-3 WG1784740-4								
p-Ethyltoluene	98		98		70-130	0		30
1,2,4,5-Tetramethylbenzene	97		97		70-130	0		30
Ethyl ether	100		99		67-130	1		30
trans-1,4-Dichloro-2-butene	93		89		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	102		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1784744-3 WG1784744-4								
Methylene chloride	103		102		70-130	1		30
1,1-Dichloroethane	109		108		70-130	1		30
Chloroform	108		109		70-130	1		30
Carbon tetrachloride	106		106		70-130	0		30
1,2-Dichloropropane	108		106		70-130	2		30
Dibromochloromethane	95		94		70-130	1		30
1,1,2-Trichloroethane	93		90		70-130	3		30
Tetrachloroethene	101		100		70-130	1		30
Chlorobenzene	98		98		70-130	0		30
Trichlorofluoromethane	98		98		70-139	0		30
1,2-Dichloroethane	104		104		70-130	0		30
1,1,1-Trichloroethane	112		111		70-130	1		30
Bromodichloromethane	108		106		70-130	2		30
trans-1,3-Dichloropropene	98		96		70-130	2		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	110		110		70-130	0		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	85		84		70-130	1		30
Benzene	109		108		70-130	1		30
Toluene	98		96		70-130	2		30
Ethylbenzene	100		99		70-130	1		30
Chloromethane	85		83		52-130	2		30
Bromomethane	103		102		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1784744-3 WG1784744-4								
Vinyl chloride	83		82		67-130	1		30
Chloroethane	97		96		50-151	1		30
1,1-Dichloroethene	106		105		65-135	1		30
trans-1,2-Dichloroethene	110		111		70-130	1		30
Trichloroethene	113		110		70-130	3		30
1,2-Dichlorobenzene	95		94		70-130	1		30
1,3-Dichlorobenzene	97		96		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	100		98		70-130	2		30
o-Xylene	99		98		70-130	1		30
cis-1,2-Dichloroethene	108		112		70-130	4		30
Dibromomethane	103		102		70-130	1		30
Styrene	101		99		70-130	2		30
Dichlorodifluoromethane	67		67		30-146	0		30
Acetone	72		72		54-140	0		30
Carbon disulfide	99		99		59-130	0		30
2-Butanone	73		75		70-130	3		30
Vinyl acetate	79		79		70-130	0		30
4-Methyl-2-pentanone	86		86		70-130	0		30
1,2,3-Trichloropropane	85		83		68-130	2		30
2-Hexanone	75		73		70-130	3		30
Bromochloromethane	108		107		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1784744-3 WG1784744-4								
2,2-Dichloropropane	112		112		70-130	0		30
1,2-Dibromoethane	97		96		70-130	1		30
1,3-Dichloropropane	94		93		69-130	1		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	96		95		70-130	1		30
n-Butylbenzene	97		95		70-130	2		30
sec-Butylbenzene	97		97		70-130	0		30
tert-Butylbenzene	99		99		70-130	0		30
o-Chlorotoluene	98		98		70-130	0		30
p-Chlorotoluene	96		97		70-130	1		30
1,2-Dibromo-3-chloropropane	84		83		68-130	1		30
Hexachlorobutadiene	103		105		67-130	2		30
Isopropylbenzene	98		98		70-130	0		30
p-Isopropyltoluene	99		98		70-130	1		30
Naphthalene	88		88		70-130	0		30
Acrylonitrile	84		83		70-130	1		30
n-Propylbenzene	100		100		70-130	0		30
1,2,3-Trichlorobenzene	97		97		70-130	0		30
1,2,4-Trichlorobenzene	99		97		70-130	2		30
1,3,5-Trimethylbenzene	96		95		70-130	1		30
1,2,4-Trimethylbenzene	97		96		70-130	1		30
1,4-Dioxane	**203**	Q	**199**	Q	65-136	2		30
p-Diethylbenzene	97		96		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1784744-3 WG1784744-4								
p-Ethyltoluene	98		98		70-130	0		30
1,2,4,5-Tetramethylbenzene	97		97		70-130	0		30
Ethyl ether	100		99		67-130	1		30
trans-1,4-Dichloro-2-butene	93		89		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	98		96		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	102		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,17,19 Batch: WG1784836-3 WG1784836-4								
Methylene chloride	106		85		70-130	22		30
1,1-Dichloroethane	105		82		70-130	25		30
Chloroform	115		91		70-130	23		30
Carbon tetrachloride	112		88		70-130	24		30
1,2-Dichloropropane	99		80		70-130	21		30
Dibromochloromethane	107		86		70-130	22		30
1,1,2-Trichloroethane	100		80		70-130	22		30
Tetrachloroethene	108		86		70-130	23		30
Chlorobenzene	102		82		70-130	22		30
Trichlorofluoromethane	109		85		70-139	25		30
1,2-Dichloroethane	113		93		70-130	19		30
1,1,1-Trichloroethane	120		93		70-130	25		30
Bromodichloromethane	110		90		70-130	20		30
trans-1,3-Dichloropropene	96		78		70-130	21		30
cis-1,3-Dichloropropene	106		85		70-130	22		30
1,1-Dichloropropene	107		83		70-130	25		30
Bromoform	101		80		70-130	23		30
1,1,2,2-Tetrachloroethane	88		71		70-130	21		30
Benzene	108		85		70-130	24		30
Toluene	93		74		70-130	23		30
Ethylbenzene	97		78		70-130	22		30
Chloromethane	94		74		52-130	24		30
Bromomethane	125		98		57-147	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,17,19 Batch: WG1784836-3 WG1784836-4								
Vinyl chloride	93		71		67-130	27		30
Chloroethane	90		69		50-151	26		30
1,1-Dichloroethene	101		79		65-135	24		30
trans-1,2-Dichloroethene	123		100		70-130	21		30
Trichloroethene	115		90		70-130	24		30
1,2-Dichlorobenzene	99		79		70-130	22		30
1,3-Dichlorobenzene	98		80		70-130	20		30
1,4-Dichlorobenzene	99		80		70-130	21		30
Methyl tert butyl ether	**133**	Q	108		66-130	21		30
p/m-Xylene	100		82		70-130	20		30
o-Xylene	100		80		70-130	22		30
cis-1,2-Dichloroethene	111		88		70-130	23		30
Dibromomethane	114		93		70-130	20		30
Styrene	100		80		70-130	22		30
Dichlorodifluoromethane	93		72		30-146	25		30
Acetone	125		104		54-140	18		30
Carbon disulfide	92		72		59-130	24		30
2-Butanone	106		86		70-130	21		30
Vinyl acetate	108		92		70-130	16		30
4-Methyl-2-pentanone	85		**67**	Q	70-130	24		30
1,2,3-Trichloropropane	84		**67**	Q	68-130	23		30
2-Hexanone	94		76		70-130	21		30
Bromochloromethane	123		97		70-130	24		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,17,19 Batch: WG1784836-3 WG1784836-4								
2,2-Dichloropropane	108		86		70-130	23		30
1,2-Dibromoethane	108		87		70-130	22		30
1,3-Dichloropropane	97		78		69-130	22		30
1,1,1,2-Tetrachloroethane	106		87		70-130	20		30
Bromobenzene	99		79		70-130	22		30
n-Butylbenzene	95		75		70-130	24		30
sec-Butylbenzene	93		73		70-130	24		30
tert-Butylbenzene	94		75		70-130	22		30
o-Chlorotoluene	91		73		70-130	22		30
p-Chlorotoluene	93		73		70-130	24		30
1,2-Dibromo-3-chloropropane	98		78		68-130	23		30
Hexachlorobutadiene	96		75		67-130	25		30
Isopropylbenzene	90		71		70-130	24		30
p-Isopropyltoluene	97		76		70-130	24		30
Naphthalene	94		76		70-130	21		30
Acrylonitrile	105		85		70-130	21		30
n-Propylbenzene	92		72		70-130	24		30
1,2,3-Trichlorobenzene	100		79		70-130	23		30
1,2,4-Trichlorobenzene	98		80		70-130	20		30
1,3,5-Trimethylbenzene	94		74		70-130	24		30
1,2,4-Trimethylbenzene	93		74		70-130	23		30
1,4-Dioxane	102		80		65-136	24		30
p-Diethylbenzene	97		78		70-130	22		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,17,19 Batch: WG1784836-3 WG1784836-4								
p-Ethyltoluene	92		73		70-130	23		30
1,2,4,5-Tetramethylbenzene	92		74		70-130	22		30
Ethyl ether	100		81		67-130	21		30
trans-1,4-Dichloro-2-butene	94		74		70-130	24		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	92		94		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	107		106		70-130

SEMIVOLATILES

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 21:58
Analyst: IM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/23/23 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	40	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	84		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 22:25
Analyst: EK
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/23/23 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	380		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	7600	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	490		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	1100		ug/kg	180	63.	1
Butyl benzyl phthalate	4700		ug/kg	180	46.	1
Di-n-butylphthalate	130	J	ug/kg	180	34.	1
Di-n-octylphthalate	300		ug/kg	180	62.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02 Date Collected: 05/10/23 10:40

Client ID: SB-2 (3-5) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	3300		ug/kg	110	20.	1
Benzo(a)pyrene	3200		ug/kg	140	44.	1
Benzo(b)fluoranthene	3900		ug/kg	110	31.	1
Benzo(k)fluoranthene	1400		ug/kg	110	29.	1
Chrysene	3300		ug/kg	110	19.	1
Acenaphthylene	500		ug/kg	140	28.	1
Anthracene	1200		ug/kg	110	36.	1
Benzo(ghi)perylene	2400		ug/kg	140	21.	1
Fluorene	500		ug/kg	180	18.	1
Phenanthrene	5300		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	510		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2600		ug/kg	140	25.	1
Pyrene	6100		ug/kg	110	18.	1
Biphenyl	47	J	ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	360		ug/kg	180	17.	1
2-Methylnaphthalene	200	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	28	J	ug/kg	260	28.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	640		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	73		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02 D
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/28/23 21:15
Analyst: EK
Percent Solids: 90%

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 05/23/23 05:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	7900		ug/kg	550	100	5

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 22:36
Analyst: CMM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	47	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	740		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	37	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03 Date Collected: 05/11/23 10:15

Client ID: SB-3 (2-4) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	330		ug/kg	110	20.	1
Benzo(a)pyrene	340		ug/kg	140	44.	1
Benzo(b)fluoranthene	390		ug/kg	110	31.	1
Benzo(k)fluoranthene	170		ug/kg	110	29.	1
Chrysene	400		ug/kg	110	19.	1
Acenaphthylene	34	J	ug/kg	140	28.	1
Anthracene	110		ug/kg	110	36.	1
Benzo(ghi)perylene	210		ug/kg	140	21.	1
Fluorene	38	J	ug/kg	180	18.	1
Phenanthrene	580		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	48	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	140	25.	1
Pyrene	750		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	30	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	60	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	68		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 23:00
Analyst: CMM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	22	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04 Date Collected: 05/11/23 11:20

Client ID: SB-8 (1-3) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	26	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	79		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 23:24
Analyst: CMM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	50	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05 Date Collected: 05/11/23 12:00

Client ID: SB-9 (2-4) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	24	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	24	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	40	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	48	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	89		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 23:48
Analyst: CMM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	260		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	130		ug/kg	110	21.	1
Benzo(a)pyrene	160		ug/kg	150	45.	1
Benzo(b)fluoranthene	190		ug/kg	110	31.	1
Benzo(k)fluoranthene	72	J	ug/kg	110	30.	1
Chrysene	160		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	120	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	140		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	27	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	150	26.	1
Pyrene	240		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	57		10-136
4-Terphenyl-d14	73		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/28/23 00:12
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	94	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07 Date Collected: 05/11/23 13:20

Client ID: SB-4 (3-5) Date Received: 05/11/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	55	J	ug/kg	120	22.	1
Benzo(a)pyrene	55	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	68	J	ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	60	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	46	J	ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	64	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	42	J	ug/kg	150	27.	1
Pyrene	88	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	73		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/28/23 00:36
Analyst: CMM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 09:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	94	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	44	J	ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	56	J	ug/kg	120	22.	1
Benzo(a)pyrene	55	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	66	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	60	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	33	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	41	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	38	J	ug/kg	160	27.	1
Pyrene	90	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	38.	1
3-Nitroaniline	ND		ug/kg	190	37.	1
4-Nitroaniline	ND		ug/kg	190	81.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	60.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	73		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09 D
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY

Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 23:28
Analyst: CMM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 15:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	690	89.	5
1,2,4-Trichlorobenzene	ND		ug/kg	860	98.	5
Hexachlorobenzene	ND		ug/kg	520	96.	5
Bis(2-chloroethyl)ether	ND		ug/kg	780	120	5
2-Chloronaphthalene	ND		ug/kg	860	85.	5
1,2-Dichlorobenzene	ND		ug/kg	860	150	5
1,3-Dichlorobenzene	ND		ug/kg	860	150	5
1,4-Dichlorobenzene	ND		ug/kg	860	150	5
3,3'-Dichlorobenzidine	ND		ug/kg	860	230	5
2,4-Dinitrotoluene	ND		ug/kg	860	170	5
2,6-Dinitrotoluene	ND		ug/kg	860	150	5
Fluoranthene	3000		ug/kg	520	99.	5
4-Chlorophenyl phenyl ether	ND		ug/kg	860	92.	5
4-Bromophenyl phenyl ether	ND		ug/kg	860	130	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1000	150	5
Bis(2-chloroethoxy)methane	ND		ug/kg	930	86.	5
Hexachlorobutadiene	ND		ug/kg	860	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2500	780	5
Hexachloroethane	ND		ug/kg	690	140	5
Isophorone	ND		ug/kg	780	110	5
Naphthalene	130	J	ug/kg	860	100	5
Nitrobenzene	ND		ug/kg	780	130	5
NDPA/DPA	ND		ug/kg	690	98.	5
n-Nitrosodi-n-propylamine	ND		ug/kg	860	130	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	860	300	5
Butyl benzyl phthalate	3700		ug/kg	860	220	5
Di-n-butylphthalate	ND		ug/kg	860	160	5
Di-n-octylphthalate	ND		ug/kg	860	290	5

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09 D
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY

Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	860	80.	5
Dimethyl phthalate	ND		ug/kg	860	180	5
Benzo(a)anthracene	1600		ug/kg	520	97.	5
Benzo(a)pyrene	850		ug/kg	690	210	5
Benzo(b)fluoranthene	1400		ug/kg	520	140	5
Benzo(k)fluoranthene	850		ug/kg	520	140	5
Chrysene	1500		ug/kg	520	90.	5
Acenaphthylene	200	J	ug/kg	690	130	5
Anthracene	340	J	ug/kg	520	170	5
Benzo(ghi)perylene	1200		ug/kg	690	100	5
Fluorene	84	J	ug/kg	860	84.	5
Phenanthrene	1400		ug/kg	520	100	5
Dibenzo(a,h)anthracene	ND		ug/kg	520	100	5
Indeno(1,2,3-cd)pyrene	780		ug/kg	690	120	5
Pyrene	2800		ug/kg	520	86.	5
Biphenyl	ND		ug/kg	2000	110	5
4-Chloroaniline	ND		ug/kg	860	160	5
2-Nitroaniline	ND		ug/kg	860	170	5
3-Nitroaniline	ND		ug/kg	860	160	5
4-Nitroaniline	ND		ug/kg	860	360	5
Dibenzofuran	ND		ug/kg	860	82.	5
2-Methylnaphthalene	170	J	ug/kg	1000	100	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	860	90.	5
Acetophenone	ND		ug/kg	860	110	5
2,4,6-Trichlorophenol	ND		ug/kg	520	160	5
p-Chloro-m-cresol	ND		ug/kg	860	130	5
2-Chlorophenol	ND		ug/kg	860	100	5
2,4-Dichlorophenol	ND		ug/kg	780	140	5
2,4-Dimethylphenol	ND		ug/kg	860	280	5
2-Nitrophenol	ND		ug/kg	1900	320	5
4-Nitrophenol	ND		ug/kg	1200	350	5
2,4-Dinitrophenol	ND		ug/kg	4100	400	5
4,6-Dinitro-o-cresol	ND		ug/kg	2200	410	5
Pentachlorophenol	ND		ug/kg	690	190	5
Phenol	ND		ug/kg	860	130	5
2-Methylphenol	ND		ug/kg	860	130	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1200	130	5

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09 D
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY
Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	860	160	5
Benzoic Acid	ND		ug/kg	2800	870	5
Benzyl Alcohol	ND		ug/kg	860	260	5
Carbazole	140	J	ug/kg	860	84.	5
1,4-Dioxane	ND		ug/kg	130	40.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		25-120
Phenol-d6	40		10-120
Nitrobenzene-d5	25		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	25		10-136
4-Terphenyl-d14	52		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10 D
Client ID: WOOD-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270E
Analytical Date: 06/01/23 14:25
Analyst: IM
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 09:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	7800	1000	20
1,2,4-Trichlorobenzene	ND		ug/kg	9800	1100	20
Hexachlorobenzene	ND		ug/kg	5800	1100	20
Bis(2-chloroethyl)ether	ND		ug/kg	8800	1300	20
2-Chloronaphthalene	ND		ug/kg	9800	970	20
1,2-Dichlorobenzene	ND		ug/kg	9800	1800	20
1,3-Dichlorobenzene	ND		ug/kg	9800	1700	20
1,4-Dichlorobenzene	ND		ug/kg	9800	1700	20
3,3'-Dichlorobenzidine	ND		ug/kg	9800	2600	20
2,4-Dinitrotoluene	ND		ug/kg	9800	2000	20
2,6-Dinitrotoluene	ND		ug/kg	9800	1700	20
Fluoranthene	ND		ug/kg	5800	1100	20
4-Chlorophenyl phenyl ether	ND		ug/kg	9800	1000	20
4-Bromophenyl phenyl ether	ND		ug/kg	9800	1500	20
Bis(2-chloroisopropyl)ether	ND		ug/kg	12000	1700	20
Bis(2-chloroethoxy)methane	ND		ug/kg	10000	980	20
Hexachlorobutadiene	ND		ug/kg	9800	1400	20
Hexachlorocyclopentadiene	ND		ug/kg	28000	8800	20
Hexachloroethane	ND		ug/kg	7800	1600	20
Isophorone	26000		ug/kg	8800	1300	20
Naphthalene	6500	J	ug/kg	9800	1200	20
Nitrobenzene	ND		ug/kg	8800	1400	20
NDPA/DPA	ND		ug/kg	7800	1100	20
n-Nitrosodi-n-propylamine	ND		ug/kg	9800	1500	20
Bis(2-ethylhexyl)phthalate	210000		ug/kg	9800	3400	20
Butyl benzyl phthalate	68000		ug/kg	9800	2400	20
Di-n-butylphthalate	48000		ug/kg	9800	1800	20
Di-n-octylphthalate	ND		ug/kg	9800	3300	20

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10 D
Client ID: WOOD-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	1000	J	ug/kg	9800	900	20
Dimethyl phthalate	ND		ug/kg	9800	2000	20
Benzo(a)anthracene	ND		ug/kg	5800	1100	20
Benzo(a)pyrene	ND		ug/kg	7800	2400	20
Benzo(b)fluoranthene	ND		ug/kg	5800	1600	20
Benzo(k)fluoranthene	ND		ug/kg	5800	1600	20
Chrysene	ND		ug/kg	5800	1000	20
Acenaphthylene	ND		ug/kg	7800	1500	20
Anthracene	ND		ug/kg	5800	1900	20
Benzo(ghi)perylene	ND		ug/kg	7800	1100	20
Fluorene	ND		ug/kg	9800	950	20
Phenanthrene	1400	J	ug/kg	5800	1200	20
Dibenzo(a,h)anthracene	ND		ug/kg	5800	1100	20
Indeno(1,2,3-cd)pyrene	ND		ug/kg	7800	1400	20
Pyrene	1100	J	ug/kg	5800	970	20
Biphenyl	ND		ug/kg	22000	1300	20
4-Chloroaniline	ND		ug/kg	9800	1800	20
2-Nitroaniline	ND		ug/kg	9800	1900	20
3-Nitroaniline	ND		ug/kg	9800	1800	20
4-Nitroaniline	ND		ug/kg	9800	4000	20
Dibenzofuran	ND		ug/kg	9800	920	20
2-Methylnaphthalene	1300	J	ug/kg	12000	1200	20
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	9800	1000	20
Acetophenone	ND		ug/kg	9800	1200	20
2,4,6-Trichlorophenol	ND		ug/kg	5800	1800	20
p-Chloro-m-cresol	ND		ug/kg	9800	1400	20
2-Chlorophenol	ND		ug/kg	9800	1200	20
2,4-Dichlorophenol	ND		ug/kg	8800	1600	20
2,4-Dimethylphenol	ND		ug/kg	9800	3200	20
2-Nitrophenol	ND		ug/kg	21000	3700	20
4-Nitrophenol	ND		ug/kg	14000	4000	20
2,4-Dinitrophenol	ND		ug/kg	47000	4500	20
4,6-Dinitro-o-cresol	ND		ug/kg	25000	4700	20
Pentachlorophenol	ND		ug/kg	7800	2100	20
Phenol	ND		ug/kg	9800	1500	20
2-Methylphenol	ND		ug/kg	9800	1500	20
3-Methylphenol/4-Methylphenol	ND		ug/kg	14000	1500	20

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10 D
Client ID: WOOD-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	9800	1900	20
Benzoic Acid	13000	J	ug/kg	32000	9900	20
Benzyl Alcohol	94000		ug/kg	9800	3000	20
Carbazole	ND		ug/kg	9800	950	20
1,4-Dioxane	ND		ug/kg	1500	450	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270E
Analytical Date: 05/27/23 18:57
Analyst: CMM
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 09:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	410	53.	1
1,2,4-Trichlorobenzene	ND		ug/kg	510	59.	1
Hexachlorobenzene	ND		ug/kg	310	57.	1
Bis(2-chloroethyl)ether	ND		ug/kg	460	69.	1
2-Chloronaphthalene	ND		ug/kg	510	51.	1
1,2-Dichlorobenzene	ND		ug/kg	510	92.	1
1,3-Dichlorobenzene	ND		ug/kg	510	88.	1
1,4-Dichlorobenzene	ND		ug/kg	510	89.	1
3,3'-Dichlorobenzidine	ND		ug/kg	510	140	1
2,4-Dinitrotoluene	ND		ug/kg	510	100	1
2,6-Dinitrotoluene	ND		ug/kg	510	88.	1
Fluoranthene	290	J	ug/kg	310	59.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	510	55.	1
4-Bromophenyl phenyl ether	ND		ug/kg	510	78.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	610	87.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	550	51.	1
Hexachlorobutadiene	ND		ug/kg	510	75.	1
Hexachlorocyclopentadiene	ND		ug/kg	1500	460	1
Hexachloroethane	ND		ug/kg	410	83.	1
Isophorone	28000	E	ug/kg	460	66.	1
Naphthalene	2000		ug/kg	510	62.	1
Nitrobenzene	ND		ug/kg	460	76.	1
NDPA/DPA	61	J	ug/kg	410	58.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	510	79.	1
Bis(2-ethylhexyl)phthalate	40000	E	ug/kg	510	180	1
Butyl benzyl phthalate	8600		ug/kg	510	130	1
Di-n-butylphthalate	11000		ug/kg	510	97.	1
Di-n-octylphthalate	2800		ug/kg	510	170	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY
Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	180	J	ug/kg	510	47.	1
Dimethyl phthalate	ND		ug/kg	510	110	1
Benzo(a)anthracene	110	J	ug/kg	310	58.	1
Benzo(a)pyrene	ND		ug/kg	410	120	1
Benzo(b)fluoranthene	140	J	ug/kg	310	86.	1
Benzo(k)fluoranthene	ND		ug/kg	310	82.	1
Chrysene	200	J	ug/kg	310	53.	1
Acenaphthylene	ND		ug/kg	410	79.	1
Anthracene	ND		ug/kg	310	100	1
Benzo(ghi)perylene	83	J	ug/kg	410	60.	1
Fluorene	ND		ug/kg	510	50.	1
Phenanthrene	430		ug/kg	310	62.	1
Dibenzo(a,h)anthracene	ND		ug/kg	310	59.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	410	71.	1
Pyrene	310		ug/kg	310	51.	1
Biphenyl	ND		ug/kg	1200	66.	1
4-Chloroaniline	ND		ug/kg	510	93.	1
2-Nitroaniline	ND		ug/kg	510	99.	1
3-Nitroaniline	ND		ug/kg	510	97.	1
4-Nitroaniline	ND		ug/kg	510	210	1
Dibenzofuran	ND		ug/kg	510	48.	1
2-Methylnaphthalene	310	J	ug/kg	610	62.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	510	53.	1
Acetophenone	ND		ug/kg	510	63.	1
2,4,6-Trichlorophenol	ND		ug/kg	310	97.	1
p-Chloro-m-cresol	ND		ug/kg	510	76.	1
2-Chlorophenol	ND		ug/kg	510	60.	1
2,4-Dichlorophenol	ND		ug/kg	460	82.	1
2,4-Dimethylphenol	ND		ug/kg	510	170	1
2-Nitrophenol	ND		ug/kg	1100	190	1
4-Nitrophenol	ND		ug/kg	720	210	1
2,4-Dinitrophenol	ND		ug/kg	2400	240	1
4,6-Dinitro-o-cresol	ND		ug/kg	1300	240	1
Pentachlorophenol	ND		ug/kg	410	110	1
Phenol	180	J	ug/kg	510	77.	1
2-Methylphenol	ND		ug/kg	510	79.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	740	80.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY
Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	510	98.	1
Benzoic Acid	ND		ug/kg	1600	520	1
Benzyl Alcohol	800		ug/kg	510	160	1
Carbazole	50	J	ug/kg	510	50.	1
1,4-Dioxane	ND		ug/kg	77	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**1**	Q	25-120
Phenol-d6	**9**	Q	10-120
Nitrobenzene-d5	**10**	Q	23-120
2-Fluorobiphenyl	**10**	Q	30-120
2,4,6-Tribromophenol	**7**	Q	10-136
4-Terphenyl-d14	**9**	Q	18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 RE\D
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270E
Analytical Date: 06/01/23 02:18
Analyst: IM
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	12000	1600	30
1,2,4-Trichlorobenzene	ND		ug/kg	15000	1800	30
Hexachlorobenzene	ND		ug/kg	9300	1700	30
Bis(2-chloroethyl)ether	ND		ug/kg	14000	2100	30
2-Chloronaphthalene	ND		ug/kg	15000	1500	30
1,2-Dichlorobenzene	ND		ug/kg	15000	2800	30
1,3-Dichlorobenzene	ND		ug/kg	15000	2600	30
1,4-Dichlorobenzene	ND		ug/kg	15000	2700	30
3,3'-Dichlorobenzidine	ND		ug/kg	15000	4100	30
2,4-Dinitrotoluene	ND		ug/kg	15000	3100	30
2,6-Dinitrotoluene	ND		ug/kg	15000	2600	30
Fluoranthene	ND		ug/kg	9300	1800	30
4-Chlorophenyl phenyl ether	ND		ug/kg	15000	1600	30
4-Bromophenyl phenyl ether	ND		ug/kg	15000	2400	30
Bis(2-chloroisopropyl)ether	ND		ug/kg	18000	2600	30
Bis(2-chloroethoxy)methane	ND		ug/kg	17000	1500	30
Hexachlorobutadiene	ND		ug/kg	15000	2300	30
Hexachlorocyclopentadiene	ND		ug/kg	44000	14000	30
Hexachloroethane	ND		ug/kg	12000	2500	30
Isophorone	98000		ug/kg	14000	2000	30
Naphthalene	6600	J	ug/kg	15000	1900	30
Nitrobenzene	ND		ug/kg	14000	2300	30
NDPA/DPA	ND		ug/kg	12000	1800	30
n-Nitrosodi-n-propylamine	ND		ug/kg	15000	2400	30
Bis(2-ethylhexyl)phthalate	140000		ug/kg	15000	5300	30
Butyl benzyl phthalate	30000		ug/kg	15000	3900	30
Di-n-butylphthalate	32000		ug/kg	15000	2900	30
Di-n-octylphthalate	9300	J	ug/kg	15000	5200	30

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 RE\D
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	15000	1400	30
Dimethyl phthalate	ND		ug/kg	15000	3200	30
Benzo(a)anthracene	ND		ug/kg	9300	1700	30
Benzo(a)pyrene	ND		ug/kg	12000	3800	30
Benzo(b)fluoranthene	ND		ug/kg	9300	2600	30
Benzo(k)fluoranthene	ND		ug/kg	9300	2500	30
Chrysene	ND		ug/kg	9300	1600	30
Acenaphthylene	ND		ug/kg	12000	2400	30
Anthracene	ND		ug/kg	9300	3000	30
Benzo(ghi)perylene	ND		ug/kg	12000	1800	30
Fluorene	ND		ug/kg	15000	1500	30
Phenanthrene	ND		ug/kg	9300	1900	30
Dibenzo(a,h)anthracene	ND		ug/kg	9300	1800	30
Indeno(1,2,3-cd)pyrene	ND		ug/kg	12000	2200	30
Pyrene	ND		ug/kg	9300	1500	30
Biphenyl	ND		ug/kg	35000	2000	30
4-Chloroaniline	ND		ug/kg	15000	2800	30
2-Nitroaniline	ND		ug/kg	15000	3000	30
3-Nitroaniline	ND		ug/kg	15000	2900	30
4-Nitroaniline	ND		ug/kg	15000	6400	30
Dibenzofuran	ND		ug/kg	15000	1500	30
2-Methylnaphthalene	ND		ug/kg	18000	1900	30
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	15000	1600	30
Acetophenone	ND		ug/kg	15000	1900	30
2,4,6-Trichlorophenol	ND		ug/kg	9300	2900	30
p-Chloro-m-cresol	ND		ug/kg	15000	2300	30
2-Chlorophenol	ND		ug/kg	15000	1800	30
2,4-Dichlorophenol	ND		ug/kg	14000	2500	30
2,4-Dimethylphenol	ND		ug/kg	15000	5100	30
2-Nitrophenol	ND		ug/kg	33000	5800	30
4-Nitrophenol	ND		ug/kg	22000	6300	30
2,4-Dinitrophenol	ND		ug/kg	74000	7200	30
4,6-Dinitro-o-cresol	ND		ug/kg	40000	7400	30
Pentachlorophenol	ND		ug/kg	12000	3400	30
Phenol	ND		ug/kg	15000	2300	30
2-Methylphenol	ND		ug/kg	15000	2400	30
3-Methylphenol/4-Methylphenol	ND		ug/kg	22000	2400	30

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 RE\D Date Collected: 05/12/23 10:00
Client ID: WOOD-2 Date Received: 05/12/23
Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	15000	3000	30
Benzoic Acid	ND		ug/kg	50000	16000	30
Benzyl Alcohol	ND		ug/kg	15000	4700	30
Carbazole	ND		ug/kg	15000	1500	30
1,4-Dioxane	ND		ug/kg	2300	710	30

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 D
Client ID: WOOD-2
Sample Location: BKLYN, NY

Sample Depth:
Matrix: Solid
Analytical Method: 1,8270E
Analytical Date: 05/28/23 21:39
Analyst: IM
Percent Solids: 96%

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 09:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Isophorone	30000		ug/kg	2300	330	5
Bis(2-ethylhexyl)phthalate	44000		ug/kg	2600	890	5

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 05/28/23 15:33
Analyst: CMM
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	13.	1
Hexachlorobenzene	ND		ug/kg	100	17.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	21.	1
2-Chloronaphthalene	ND		ug/kg	170	10.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.	1
2,4-Dinitrotoluene	ND		ug/kg	170	17.	1
2,6-Dinitrotoluene	ND		ug/kg	170	38.	1
Fluoranthene	14	J	ug/kg	100	10.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	16.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	19.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	25.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	170	21.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	17.	1
Hexachloroethane	ND		ug/kg	140	23.	1
Isophorone	3100		ug/kg	170	21.	1
Naphthalene	23	J	ug/kg	170	17.	1
Nitrobenzene	ND		ug/kg	170	16.	1
NDPA/DPA	ND		ug/kg	140	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	31.	1
Bis(2-ethylhexyl)phthalate	87	J	ug/kg	170	36.	1
Butyl benzyl phthalate	ND		ug/kg	170	38.	1
Di-n-butylphthalate	ND		ug/kg	170	39.	1
Di-n-octylphthalate	ND		ug/kg	170	30.	1
Diethyl phthalate	ND		ug/kg	170	14.	1
Dimethyl phthalate	ND		ug/kg	170	9.9	1
Benzo(a)anthracene	ND		ug/kg	100	23.	1
Benzo(a)pyrene	ND		ug/kg	140	18.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 Date Collected: 05/12/23 11:00

Client ID: CONCRETE-1 Date Received: 05/12/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	14.	1
Benzo(k)fluoranthene	ND		ug/kg	100	14.	1
Chrysene	ND		ug/kg	100	26.	1
Acenaphthylene	ND		ug/kg	140	17.	1
Anthracene	ND		ug/kg	100	23.	1
Benzo(ghi)perylene	ND		ug/kg	140	13.	1
Fluorene	ND		ug/kg	170	12.	1
Phenanthrene	ND		ug/kg	100	31.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	14.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	15.	1
Pyrene	ND		ug/kg	100	28.	1
Biphenyl	ND		ug/kg	380	13.	1
4-Chloroaniline	ND		ug/kg	170	44.	1
2-Nitroaniline	ND		ug/kg	170	24.	1
3-Nitroaniline	ND		ug/kg	170	22.	1
4-Nitroaniline	ND		ug/kg	170	31.	1
Dibenzofuran	ND		ug/kg	170	12.	1
2-Methylnaphthalene	ND		ug/kg	210	19.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	12.	1
Acetophenone	ND		ug/kg	170	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	30.	1
p-Chloro-m-cresol	ND		ug/kg	170	35.	1
2-Chlorophenol	ND		ug/kg	170	30.	1
2,4-Dichlorophenol	ND		ug/kg	170	24.	1
2,4-Dimethylphenol	ND		ug/kg	170	11.	1
2-Nitrophenol	ND		ug/kg	380	25.	1
4-Nitrophenol	ND		ug/kg	240	43.	1
2,4-Dinitrophenol	ND		ug/kg	830	31.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	21.	1
Pentachlorophenol	ND		ug/kg	140	28.	1
Phenol	ND		ug/kg	170	20.	1
2-Methylphenol	ND		ug/kg	170	50.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	38.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	23.	1
Benzoic Acid	ND		ug/kg	560	44.	1
Benzyl Alcohol	320000	E	ug/kg	170	36.	1
Carbazole	ND		ug/kg	170	11.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	31-118
Phenol-d6	**0**	Q	37-126
Nitrobenzene-d5	40		29-137
2-Fluorobiphenyl	55		38-127
2,4,6-Tribromophenol	**0**	Q	40-130
4-Terphenyl-d14	42		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 RE\D2
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 06/01/23 17:10
Analyst: JG
Percent Solids: 95%

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzyl Alcohol	230000		ug/kg	17000	3600	100

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 RE\D
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 06/01/23 15:12
Analyst: JG
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1400	130	10
Hexachlorobenzene	ND		ug/kg	1000	170	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	210	10
2-Chloronaphthalene	ND		ug/kg	1700	100	10
3,3'-Dichlorobenzidine	ND		ug/kg	1700	440	10
2,4-Dinitrotoluene	ND		ug/kg	1700	170	10
2,6-Dinitrotoluene	ND		ug/kg	1700	370	10
Fluoranthene	ND		ug/kg	1000	100	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1700	160	10
4-Bromophenyl phenyl ether	ND		ug/kg	1700	190	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2100	250	10
Bis(2-chloroethoxy)methane	ND		ug/kg	1700	210	10
Hexachlorobutadiene	ND		ug/kg	1700	260	10
Hexachlorocyclopentadiene	ND		ug/kg	4800	170	10
Hexachloroethane	ND		ug/kg	1400	230	10
Isophorone	ND		ug/kg	1700	210	10
Naphthalene	ND		ug/kg	1700	170	10
Nitrobenzene	ND		ug/kg	1700	160	10
NDPA/DPA	ND		ug/kg	1400	250	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1700	300	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1700	360	10
Butyl benzyl phthalate	ND		ug/kg	1700	370	10
Di-n-butylphthalate	ND		ug/kg	1700	380	10
Di-n-octylphthalate	ND		ug/kg	1700	290	10
Diethyl phthalate	ND		ug/kg	1700	140	10
Dimethyl phthalate	ND		ug/kg	1700	98.	10
Benzo(a)anthracene	ND		ug/kg	1000	230	10
Benzo(a)pyrene	ND		ug/kg	1400	180	10

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 RE\D
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	1000	140	10
Benzo(k)fluoranthene	ND		ug/kg	1000	140	10
Chrysene	ND		ug/kg	1000	260	10
Acenaphthylene	ND		ug/kg	1400	170	10
Anthracene	ND		ug/kg	1000	230	10
Benzo(ghi)perylene	ND		ug/kg	1400	120	10
Fluorene	ND		ug/kg	1700	120	10
Phenanthrene	ND		ug/kg	1000	310	10
Dibenzo(a,h)anthracene	ND		ug/kg	1000	140	10
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1400	150	10
Pyrene	ND		ug/kg	1000	270	10
Biphenyl	ND		ug/kg	3800	130	10
4-Chloroaniline	ND		ug/kg	1700	440	10
2-Nitroaniline	ND		ug/kg	1700	240	10
3-Nitroaniline	ND		ug/kg	1700	220	10
4-Nitroaniline	ND		ug/kg	1700	300	10
Dibenzofuran	ND		ug/kg	1700	120	10
2-Methylnaphthalene	ND		ug/kg	2100	190	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1700	110	10
Acetophenone	ND		ug/kg	1700	350	10
2,4,6-Trichlorophenol	ND		ug/kg	1000	300	10
p-Chloro-m-cresol	ND		ug/kg	1700	340	10
2-Chlorophenol	ND		ug/kg	1700	300	10
2,4-Dichlorophenol	ND		ug/kg	1700	240	10
2,4-Dimethylphenol	ND		ug/kg	1700	110	10
2-Nitrophenol	ND		ug/kg	3800	250	10
4-Nitrophenol	ND		ug/kg	2400	430	10
2,4-Dinitrophenol	ND		ug/kg	8200	310	10
4,6-Dinitro-o-cresol	ND		ug/kg	4500	210	10
Pentachlorophenol	ND		ug/kg	1400	280	10
Phenol	300	J	ug/kg	1700	200	10
2-Methylphenol	ND		ug/kg	1700	500	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2400	370	10
2,4,5-Trichlorophenol	ND		ug/kg	1700	220	10
Benzoic Acid	ND		ug/kg	5500	440	10
Benzyl Alcohol	240000	E	ug/kg	1700	360	10
Carbazole	ND		ug/kg	1700	110	10

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 RE\D
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**4**	Q	31-118
Phenol-d6	51		37-126
Nitrobenzene-d5	80		29-137
2-Fluorobiphenyl	74		38-127
2,4,6-Tribromophenol	**0**	Q	40-130
4-Terphenyl-d14	75		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12 D
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 05/30/23 13:18
Analyst: JG
Percent Solids: 95%

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzyl Alcohol	610000		ug/kg	17000	3600	100

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 15:29
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 18:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13 Date Collected: 05/15/23 09:00

Client ID: SB-5 (3-5) Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	31	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	26	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	22	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	74		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 15:53
Analyst: CMM
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 18:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	72	J	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14 Date Collected: 05/15/23 10:30

Client ID: SB-7 (2-4) Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	39	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	42	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	42	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	46	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	69	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	28.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	21.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	69		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 16:17
Analyst: CMM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 18:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	260		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	120		ug/kg	110	21.	1
Benzo(a)pyrene	97	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	130		ug/kg	110	32.	1
Benzo(k)fluoranthene	42	J	ug/kg	110	30.	1
Chrysene	120		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	50	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	180		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	56	J	ug/kg	150	27.	1
Pyrene	210		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	71		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/27/23 16:41
Analyst: CMM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 18:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	130		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	100	J	ug/kg	120	22.	1
Benzo(a)pyrene	110	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	140		ug/kg	120	33.	1
Benzo(k)fluoranthene	44	J	ug/kg	120	32.	1
Chrysene	100	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	55	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	36	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	70	J	ug/kg	160	28.	1
Pyrene	120		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	77		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 RE\D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 06/01/23 15:35
Analyst: JG
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	4000	380	30
Hexachlorobenzene	ND		ug/kg	3000	490	30
Bis(2-chloroethyl)ether	ND		ug/kg	5000	620	30
2-Chloronaphthalene	ND		ug/kg	5000	300	30
3,3'-Dichlorobenzidine	ND		ug/kg	5000	1300	30
2,4-Dinitrotoluene	ND		ug/kg	5000	500	30
2,6-Dinitrotoluene	ND		ug/kg	5000	1100	30
Fluoranthene	ND		ug/kg	3000	290	30
4-Chlorophenyl phenyl ether	ND		ug/kg	5000	460	30
4-Bromophenyl phenyl ether	ND		ug/kg	5000	550	30
Bis(2-chloroisopropyl)ether	ND		ug/kg	6000	730	30
Bis(2-chloroethoxy)methane	ND		ug/kg	5000	610	30
Hexachlorobutadiene	ND		ug/kg	5000	760	30
Hexachlorocyclopentadiene	ND		ug/kg	14000	490	30
Hexachloroethane	ND		ug/kg	4000	680	30
Isophorone	ND		ug/kg	5000	620	30
Naphthalene	4800	J	ug/kg	5000	490	30
Nitrobenzene	ND		ug/kg	5000	460	30
NDPA/DPA	ND		ug/kg	4000	740	30
n-Nitrosodi-n-propylamine	ND		ug/kg	5000	890	30
Bis(2-ethylhexyl)phthalate	100000		ug/kg	5000	1000	30
Butyl benzyl phthalate	7600		ug/kg	5000	1100	30
Di-n-butylphthalate	12000		ug/kg	5000	1100	30
Di-n-octylphthalate	ND		ug/kg	5000	850	30
Diethyl phthalate	ND		ug/kg	5000	400	30
Dimethyl phthalate	ND		ug/kg	5000	280	30
Benzo(a)anthracene	ND		ug/kg	3000	670	30
Benzo(a)pyrene	ND		ug/kg	4000	530	30

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 RE\D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	3000	390	30
Benzo(k)fluoranthene	ND		ug/kg	3000	420	30
Chrysene	ND		ug/kg	3000	760	30
Acenaphthylene	ND		ug/kg	4000	490	30
Anthracene	ND		ug/kg	3000	660	30
Benzo(ghi)perylene	ND		ug/kg	4000	360	30
Fluorene	ND		ug/kg	5000	340	30
Phenanthrene	ND		ug/kg	3000	900	30
Dibenzo(a,h)anthracene	ND		ug/kg	3000	400	30
Indeno(1,2,3-cd)pyrene	ND		ug/kg	4000	420	30
Pyrene	ND		ug/kg	3000	800	30
Biphenyl	880	J	ug/kg	11000	380	30
4-Chloroaniline	ND		ug/kg	5000	1300	30
2-Nitroaniline	ND		ug/kg	5000	690	30
3-Nitroaniline	ND		ug/kg	5000	630	30
4-Nitroaniline	ND		ug/kg	5000	880	30
Dibenzofuran	ND		ug/kg	5000	350	30
2-Methylnaphthalene	860	J	ug/kg	6000	560	30
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	5000	330	30
Acetophenone	ND		ug/kg	5000	1000	30
2,4,6-Trichlorophenol	ND		ug/kg	3000	870	30
p-Chloro-m-cresol	ND		ug/kg	5000	1000	30
2-Chlorophenol	ND		ug/kg	5000	860	30
2,4-Dichlorophenol	ND		ug/kg	5000	700	30
2,4-Dimethylphenol	ND		ug/kg	5000	320	30
2-Nitrophenol	ND		ug/kg	11000	720	30
4-Nitrophenol	ND		ug/kg	7000	1200	30
2,4-Dinitrophenol	ND		ug/kg	24000	900	30
4,6-Dinitro-o-cresol	ND		ug/kg	13000	600	30
Pentachlorophenol	ND		ug/kg	4000	820	30
Phenol	3400	J	ug/kg	5000	570	30
2-Methylphenol	ND		ug/kg	5000	1400	30
3-Methylphenol/4-Methylphenol	ND		ug/kg	7000	1100	30
2,4,5-Trichlorophenol	ND		ug/kg	5000	650	30
Benzoic Acid	ND		ug/kg	16000	1300	30
Benzyl Alcohol	1500	J	ug/kg	5000	1000	30
Carbazole	ND		ug/kg	5000	330	30

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 RE\D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	31-118
Phenol-d6	**0**	Q	37-126
Nitrobenzene-d5	**0**	Q	29-137
2-Fluorobiphenyl	**0**	Q	38-127
2,4,6-Tribromophenol	**0**	Q	40-130
4-Terphenyl-d14	**0**	Q	36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D2
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 06/02/23 09:30
Analyst: IM
Percent Solids: 97%

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	35000		ug/kg	1700	350	10

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 05/28/23 22:02
Analyst: JG
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	680	65.	5
Hexachlorobenzene	ND		ug/kg	510	84.	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	100	5
2-Chloronaphthalene	ND		ug/kg	850	51.	5
3,3'-Dichlorobenzidine	ND		ug/kg	850	220	5
2,4-Dinitrotoluene	ND		ug/kg	850	84.	5
2,6-Dinitrotoluene	ND		ug/kg	850	180	5
Fluoranthene	73	J	ug/kg	510	50.	5
4-Chlorophenyl phenyl ether	ND		ug/kg	850	78.	5
4-Bromophenyl phenyl ether	ND		ug/kg	850	94.	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1000	120	5
Bis(2-chloroethoxy)methane	ND		ug/kg	850	100	5
Hexachlorobutadiene	ND		ug/kg	850	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2400	84.	5
Hexachloroethane	ND		ug/kg	680	120	5
Isophorone	ND		ug/kg	850	100	5
Naphthalene	1900		ug/kg	850	84.	5
Nitrobenzene	ND		ug/kg	850	78.	5
NDPA/DPA	ND		ug/kg	680	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	850	150	5
Bis(2-ethylhexyl)phthalate	34000	E	ug/kg	850	180	5
Butyl benzyl phthalate	2100		ug/kg	850	180	5
Di-n-butylphthalate	4300		ug/kg	850	190	5
Di-n-octylphthalate	ND		ug/kg	850	140	5
Diethyl phthalate	ND		ug/kg	850	69.	5
Dimethyl phthalate	ND		ug/kg	850	48.	5
Benzo(a)anthracene	ND		ug/kg	510	110	5
Benzo(a)pyrene	ND		ug/kg	680	91.	5

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	510	67.	5
Benzo(k)fluoranthene	ND		ug/kg	510	71.	5
Chrysene	ND		ug/kg	510	130	5
Acenaphthylene	ND		ug/kg	680	84.	5
Anthracene	ND		ug/kg	510	110	5
Benzo(ghi)perylene	ND		ug/kg	680	62.	5
Fluorene	ND		ug/kg	850	59.	5
Phenanthrene	ND		ug/kg	510	150	5
Dibenzo(a,h)anthracene	ND		ug/kg	510	68.	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	680	72.	5
Pyrene	ND		ug/kg	510	140	5
Biphenyl	ND		ug/kg	1900	64.	5
4-Chloroaniline	ND		ug/kg	850	220	5
2-Nitroaniline	ND		ug/kg	850	120	5
3-Nitroaniline	ND		ug/kg	850	110	5
4-Nitroaniline	ND		ug/kg	850	150	5
Dibenzofuran	ND		ug/kg	850	60.	5
2-Methylnaphthalene	380	J	ug/kg	1000	95.	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	850	57.	5
Acetophenone	ND		ug/kg	850	180	5
2,4,6-Trichlorophenol	ND		ug/kg	510	150	5
p-Chloro-m-cresol	ND		ug/kg	850	170	5
2-Chlorophenol	ND		ug/kg	850	150	5
2,4-Dichlorophenol	ND		ug/kg	850	120	5
2,4-Dimethylphenol	ND		ug/kg	850	54.	5
2-Nitrophenol	ND		ug/kg	1900	120	5
4-Nitrophenol	ND		ug/kg	1200	210	5
2,4-Dinitrophenol	ND		ug/kg	4100	150	5
4,6-Dinitro-o-cresol	ND		ug/kg	2200	100	5
Pentachlorophenol	ND		ug/kg	680	140	5
Phenol	770	J	ug/kg	850	98.	5
2-Methylphenol	ND		ug/kg	850	250	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1200	180	5
2,4,5-Trichlorophenol	ND		ug/kg	850	110	5
Benzoic Acid	ND		ug/kg	2700	220	5
Benzyl Alcohol	800	J	ug/kg	850	180	5
Carbazole	ND		ug/kg	850	56.	5

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	31-118
Phenol-d6	**14**	Q	37-126
Nitrobenzene-d5	33		29-137
2-Fluorobiphenyl	**24**	Q	38-127
2,4,6-Tribromophenol	**13**	Q	40-130
4-Terphenyl-d14	**24**	Q	36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 05/28/23 16:22
Analyst: CMM
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	13.	1
Hexachlorobenzene	ND		ug/kg	100	17.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	22.	1
2-Chloronaphthalene	ND		ug/kg	180	10.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	45.	1
2,4-Dinitrotoluene	ND		ug/kg	180	17.	1
2,6-Dinitrotoluene	ND		ug/kg	180	38.	1
Fluoranthene	27	J	ug/kg	100	10.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	16.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	19.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	26.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	21.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	17.	1
Hexachloroethane	ND		ug/kg	140	24.	1
Isophorone	7700	E	ug/kg	180	22.	1
Naphthalene	ND		ug/kg	180	17.	1
Nitrobenzene	ND		ug/kg	180	16.	1
NDPA/DPA	ND		ug/kg	140	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	31.	1
Bis(2-ethylhexyl)phthalate	330		ug/kg	180	36.	1
Butyl benzyl phthalate	ND		ug/kg	180	38.	1
Di-n-butylphthalate	ND		ug/kg	180	39.	1
Di-n-octylphthalate	ND		ug/kg	180	30.	1
Diethyl phthalate	ND		ug/kg	180	14.	1
Dimethyl phthalate	ND		ug/kg	180	10.	1
Benzo(a)anthracene	ND		ug/kg	100	24.	1
Benzo(a)pyrene	ND		ug/kg	140	19.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18 Date Collected: 05/15/23 13:15

Client ID: CONCRETE-3 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	14.	1
Benzo(k)fluoranthene	ND		ug/kg	100	15.	1
Chrysene	ND		ug/kg	100	27.	1
Acenaphthylene	ND		ug/kg	140	17.	1
Anthracene	ND		ug/kg	100	23.	1
Benzo(ghi)perylene	ND		ug/kg	140	13.	1
Fluorene	ND		ug/kg	180	12.	1
Phenanthrene	ND		ug/kg	100	32.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	14.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	15.	1
Pyrene	ND		ug/kg	100	28.	1
Biphenyl	ND		ug/kg	390	13.	1
4-Chloroaniline	ND		ug/kg	180	44.	1
2-Nitroaniline	ND		ug/kg	180	24.	1
3-Nitroaniline	ND		ug/kg	180	22.	1
4-Nitroaniline	ND		ug/kg	180	31.	1
Dibenzofuran	ND		ug/kg	180	12.	1
2-Methylnaphthalene	ND		ug/kg	210	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	12.	1
Acetophenone	ND		ug/kg	180	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	31.	1
p-Chloro-m-cresol	ND		ug/kg	180	35.	1
2-Chlorophenol	ND		ug/kg	180	30.	1
2,4-Dichlorophenol	ND		ug/kg	180	24.	1
2,4-Dimethylphenol	11	J	ug/kg	180	11.	1
2-Nitrophenol	ND		ug/kg	390	25.	1
4-Nitrophenol	ND		ug/kg	250	44.	1
2,4-Dinitrophenol	ND		ug/kg	840	32.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	21.	1
Pentachlorophenol	ND		ug/kg	140	29.	1
Phenol	ND		ug/kg	180	20.	1
2-Methylphenol	ND		ug/kg	180	51.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	38.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	23.	1
Benzoic Acid	ND		ug/kg	560	45.	1
Benzyl Alcohol	ND		ug/kg	180	37.	1
Carbazole	ND		ug/kg	180	12.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	31-118
Phenol-d6	**0**	Q	37-126
Nitrobenzene-d5	60		29-137
2-Fluorobiphenyl	69		38-127
2,4,6-Tribromophenol	**16**	Q	40-130
4-Terphenyl-d14	68		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18 RE
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 06/01/23 16:22
Analyst: JG
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	13.	1
Hexachlorobenzene	ND		ug/kg	100	17.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	22.	1
2-Chloronaphthalene	ND		ug/kg	180	10.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	45.	1
2,4-Dinitrotoluene	ND		ug/kg	180	17.	1
2,6-Dinitrotoluene	ND		ug/kg	180	38.	1
Fluoranthene	20	J	ug/kg	100	10.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	16.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	19.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	26.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	21.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	17.	1
Hexachloroethane	ND		ug/kg	140	24.	1
Isophorone	ND		ug/kg	180	22.	1
Naphthalene	ND		ug/kg	180	17.	1
Nitrobenzene	ND		ug/kg	180	16.	1
NDPA/DPA	ND		ug/kg	140	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	31.	1
Bis(2-ethylhexyl)phthalate	310		ug/kg	180	36.	1
Butyl benzyl phthalate	ND		ug/kg	180	38.	1
Di-n-butylphthalate	ND		ug/kg	180	39.	1
Di-n-octylphthalate	ND		ug/kg	180	30.	1
Diethyl phthalate	ND		ug/kg	180	14.	1
Dimethyl phthalate	ND		ug/kg	180	10.	1
Benzo(a)anthracene	ND		ug/kg	100	24.	1
Benzo(a)pyrene	ND		ug/kg	140	19.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18 RE
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	14.	1
Benzo(k)fluoranthene	ND		ug/kg	100	14.	1
Chrysene	ND		ug/kg	100	27.	1
Acenaphthylene	ND		ug/kg	140	17.	1
Anthracene	ND		ug/kg	100	23.	1
Benzo(ghi)perylene	ND		ug/kg	140	13.	1
Fluorene	ND		ug/kg	180	12.	1
Phenanthrene	ND		ug/kg	100	32.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	14.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	15.	1
Pyrene	ND		ug/kg	100	28.	1
Biphenyl	ND		ug/kg	390	13.	1
4-Chloroaniline	ND		ug/kg	180	44.	1
2-Nitroaniline	ND		ug/kg	180	24.	1
3-Nitroaniline	ND		ug/kg	180	22.	1
4-Nitroaniline	ND		ug/kg	180	31.	1
Dibenzofuran	ND		ug/kg	180	12.	1
2-Methylnaphthalene	ND		ug/kg	210	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	12.	1
Acetophenone	ND		ug/kg	180	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	31.	1
p-Chloro-m-cresol	ND		ug/kg	180	35.	1
2-Chlorophenol	ND		ug/kg	180	30.	1
2,4-Dichlorophenol	ND		ug/kg	180	24.	1
2,4-Dimethylphenol	ND		ug/kg	180	11.	1
2-Nitrophenol	ND		ug/kg	390	25.	1
4-Nitrophenol	ND		ug/kg	250	44.	1
2,4-Dinitrophenol	ND		ug/kg	840	32.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	21.	1
Pentachlorophenol	ND		ug/kg	140	29.	1
Phenol	ND		ug/kg	180	20.	1
2-Methylphenol	ND		ug/kg	180	51.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	38.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	23.	1
Benzoic Acid	ND		ug/kg	560	45.	1
Benzyl Alcohol	ND		ug/kg	180	37.	1
Carbazole	ND		ug/kg	180	12.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18 RE
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**2**	Q	31-118
Phenol-d6	**33**	Q	37-126
Nitrobenzene-d5	83		29-137
2-Fluorobiphenyl	75		38-127
2,4,6-Tribromophenol	**0**	Q	40-130
4-Terphenyl-d14	75		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18 D
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 05/30/23 13:42
Analyst: JG
Percent Solids: 93%

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Isophorone	10000		ug/kg	880	110	5

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 05/28/23 16:46
Analyst: CMM
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	13.	1
Hexachlorobenzene	ND		ug/kg	100	17.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	21.	1
2-Chloronaphthalene	ND		ug/kg	170	10.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	17.	1
2,6-Dinitrotoluene	ND		ug/kg	170	38.	1
Fluoranthene	37	J	ug/kg	100	10.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	16.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	19.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	26.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	170	21.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	17.	1
Hexachloroethane	ND		ug/kg	140	24.	1
Isophorone	ND		ug/kg	170	22.	1
Naphthalene	ND		ug/kg	170	17.	1
Nitrobenzene	ND		ug/kg	170	16.	1
NDPA/DPA	ND		ug/kg	140	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	31.	1
Bis(2-ethylhexyl)phthalate	920		ug/kg	170	36.	1
Butyl benzyl phthalate	81	J	ug/kg	170	38.	1
Di-n-butylphthalate	78	J	ug/kg	170	39.	1
Di-n-octylphthalate	ND		ug/kg	170	30.	1
Diethyl phthalate	ND		ug/kg	170	14.	1
Dimethyl phthalate	ND		ug/kg	170	10.	1
Benzo(a)anthracene	ND		ug/kg	100	23.	1
Benzo(a)pyrene	ND		ug/kg	140	19.	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 Date Collected: 05/15/23 13:45

Client ID: CONCRETE-4 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	19	J	ug/kg	100	14.	1
Benzo(k)fluoranthene	ND		ug/kg	100	14.	1
Chrysene	30	J	ug/kg	100	26.	1
Acenaphthylene	ND		ug/kg	140	17.	1
Anthracene	ND		ug/kg	100	23.	1
Benzo(ghi)perylene	ND		ug/kg	140	13.	1
Fluorene	ND		ug/kg	170	12.	1
Phenanthrene	ND		ug/kg	100	31.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	14.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	15.	1
Pyrene	37	J	ug/kg	100	28.	1
Biphenyl	ND		ug/kg	380	13.	1
4-Chloroaniline	ND		ug/kg	170	44.	1
2-Nitroaniline	ND		ug/kg	170	24.	1
3-Nitroaniline	ND		ug/kg	170	22.	1
4-Nitroaniline	ND		ug/kg	170	31.	1
Dibenzofuran	ND		ug/kg	170	12.	1
2-Methylnaphthalene	ND		ug/kg	210	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	12.	1
Acetophenone	ND		ug/kg	170	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	30.	1
p-Chloro-m-cresol	ND		ug/kg	170	35.	1
2-Chlorophenol	ND		ug/kg	170	30.	1
2,4-Dichlorophenol	ND		ug/kg	170	24.	1
2,4-Dimethylphenol	ND		ug/kg	170	11.	1
2-Nitrophenol	ND		ug/kg	380	25.	1
4-Nitrophenol	ND		ug/kg	240	43.	1
2,4-Dinitrophenol	ND		ug/kg	840	31.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	21.	1
Pentachlorophenol	ND		ug/kg	140	29.	1
Phenol	ND		ug/kg	170	20.	1
2-Methylphenol	ND		ug/kg	170	51.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	38.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	23.	1
Benzoic Acid	160	J	ug/kg	560	44.	1
Benzyl Alcohol	57	J	ug/kg	170	36.	1
Carbazole	ND		ug/kg	170	12.	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		31-118
Phenol-d6	39		37-126
Nitrobenzene-d5	34		29-137
2-Fluorobiphenyl	43		38-127
2,4,6-Tribromophenol	**19**	Q	40-130
4-Terphenyl-d14	41		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 RE\D
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8270E
Analytical Date: 06/01/23 15:59
Analyst: JG
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	690	66.	5
Hexachlorobenzene	ND		ug/kg	520	85.	5
Bis(2-chloroethyl)ether	ND		ug/kg	860	110	5
2-Chloronaphthalene	ND		ug/kg	860	52.	5
3,3'-Dichlorobenzidine	ND		ug/kg	860	220	5
2,4-Dinitrotoluene	ND		ug/kg	860	86.	5
2,6-Dinitrotoluene	ND		ug/kg	860	190	5
Fluoranthene	58	J	ug/kg	520	50.	5
4-Chlorophenyl phenyl ether	ND		ug/kg	860	79.	5
4-Bromophenyl phenyl ether	ND		ug/kg	860	95.	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1000	130	5
Bis(2-chloroethoxy)methane	ND		ug/kg	860	100	5
Hexachlorobutadiene	ND		ug/kg	860	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2400	85.	5
Hexachloroethane	ND		ug/kg	690	120	5
Isophorone	ND		ug/kg	860	110	5
Naphthalene	ND		ug/kg	860	85.	5
Nitrobenzene	ND		ug/kg	860	79.	5
NDPA/DPA	ND		ug/kg	690	130	5
n-Nitrosodi-n-propylamine	ND		ug/kg	860	150	5
Bis(2-ethylhexyl)phthalate	1200		ug/kg	860	180	5
Butyl benzyl phthalate	490	J	ug/kg	860	190	5
Di-n-butylphthalate	ND		ug/kg	860	190	5
Di-n-octylphthalate	ND		ug/kg	860	150	5
Diethyl phthalate	ND		ug/kg	860	70.	5
Dimethyl phthalate	ND		ug/kg	860	49.	5
Benzo(a)anthracene	ND		ug/kg	520	120	5
Benzo(a)pyrene	ND		ug/kg	690	92.	5

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 RE\D
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	520	68.	5
Benzo(k)fluoranthene	ND		ug/kg	520	72.	5
Chrysene	ND		ug/kg	520	130	5
Acenaphthylene	ND		ug/kg	690	85.	5
Anthracene	ND		ug/kg	520	110	5
Benzo(ghi)perylene	ND		ug/kg	690	63.	5
Fluorene	ND		ug/kg	860	60.	5
Phenanthrene	ND		ug/kg	520	150	5
Dibenzo(a,h)anthracene	ND		ug/kg	520	69.	5
Indeno(1,2,3-cd)pyrene	ND		ug/kg	690	73.	5
Pyrene	ND		ug/kg	520	140	5
Biphenyl	ND		ug/kg	1900	65.	5
4-Chloroaniline	ND		ug/kg	860	220	5
2-Nitroaniline	ND		ug/kg	860	120	5
3-Nitroaniline	ND		ug/kg	860	110	5
4-Nitroaniline	ND		ug/kg	860	150	5
Dibenzofuran	ND		ug/kg	860	60.	5
2-Methylnaphthalene	ND		ug/kg	1000	96.	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	860	58.	5
Acetophenone	ND		ug/kg	860	180	5
2,4,6-Trichlorophenol	ND		ug/kg	520	150	5
p-Chloro-m-cresol	ND		ug/kg	860	170	5
2-Chlorophenol	ND		ug/kg	860	150	5
2,4-Dichlorophenol	ND		ug/kg	860	120	5
2,4-Dimethylphenol	ND		ug/kg	860	55.	5
2-Nitrophenol	ND		ug/kg	1900	120	5
4-Nitrophenol	ND		ug/kg	1200	210	5
2,4-Dinitrophenol	ND		ug/kg	4100	160	5
4,6-Dinitro-o-cresol	ND		ug/kg	2200	100	5
Pentachlorophenol	ND		ug/kg	690	140	5
Phenol	ND		ug/kg	860	99.	5
2-Methylphenol	ND		ug/kg	860	250	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1200	190	5
2,4,5-Trichlorophenol	ND		ug/kg	860	110	5
Benzoic Acid	ND		ug/kg	2800	220	5
Benzyl Alcohol	ND		ug/kg	860	180	5
Carbazole	ND		ug/kg	860	57.	5

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 RE\D
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		31-118
Phenol-d6	78		37-126
Nitrobenzene-d5	83		29-137
2-Fluorobiphenyl	75		38-127
2,4,6-Tribromophenol	**5**	Q	40-130
4-Terphenyl-d14	74		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/21/23 20:49
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 10:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	63		41-149

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/21/23 14:42
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 10:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.12		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	69		41-149

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21 RE
Client ID: FB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/01/23 09:23
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 18:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.05	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.06	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21 RE
Client ID: FB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	67		41-149

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/27/23 16:37
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 09:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1778966-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/27/23 16:37
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 09:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1778966-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/27/23 16:37
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 09:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10-11 Batch: WG1778966-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	83		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/27/23 14:51
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,17-19 Batch: WG1781035-1					
Acenaphthene	ND		ug/kg	130	13.
1,2,4-Trichlorobenzene	ND		ug/kg	170	16.
Hexachlorobenzene	ND		ug/kg	100	16.
Bis(2-chloroethyl)ether	ND		ug/kg	170	20.
2-Chloronaphthalene	ND		ug/kg	170	10.
1,2-Dichlorobenzene	ND		ug/kg	170	22.
1,3-Dichlorobenzene	ND		ug/kg	170	26.
1,4-Dichlorobenzene	ND		ug/kg	170	23.
3,3'-Dichlorobenzidine	ND		ug/kg	170	42.
2,4-Dinitrotoluene	ND		ug/kg	170	16.
2,6-Dinitrotoluene	ND		ug/kg	170	36.
Fluoranthene	ND		ug/kg	100	9.7
4-Chlorophenyl phenyl ether	ND		ug/kg	170	15.
4-Bromophenyl phenyl ether	ND		ug/kg	170	18.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	24.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	20.
Hexachlorobutadiene	ND		ug/kg	170	25.
Hexachlorocyclopentadiene	ND		ug/kg	460	16.
Hexachloroethane	ND		ug/kg	130	22.
Isophorone	ND		ug/kg	170	20.
Naphthalene	ND		ug/kg	170	16.
Nitrobenzene	ND		ug/kg	170	15.
NDPA/DPA	ND		ug/kg	130	24.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	30.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	34.
Butyl benzyl phthalate	ND		ug/kg	170	36.
Di-n-butylphthalate	ND		ug/kg	170	37.
Di-n-octylphthalate	ND		ug/kg	170	28.
Diethyl phthalate	ND		ug/kg	170	13.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/27/23 14:51
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,17-19 Batch: WG1781035-1					
Dimethyl phthalate	ND		ug/kg	170	9.5
Benzo(a)anthracene	ND		ug/kg	100	22.
Benzo(a)pyrene	ND		ug/kg	130	18.
Benzo(b)fluoranthene	ND		ug/kg	100	13.
Benzo(k)fluoranthene	ND		ug/kg	100	14.
Chrysene	ND		ug/kg	100	25.
Acenaphthylene	ND		ug/kg	130	16.
Anthracene	ND		ug/kg	100	22.
Benzo(ghi)perylene	ND		ug/kg	130	12.
Fluorene	ND		ug/kg	170	11.
Phenanthrene	ND		ug/kg	100	30.
Dibenzo(a,h)anthracene	ND		ug/kg	100	13.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	14.
Pyrene	ND		ug/kg	100	26.
Biphenyl	ND		ug/kg	370	12.
4-Chloroaniline	ND		ug/kg	170	42.
2-Nitroaniline	ND		ug/kg	170	23.
3-Nitroaniline	ND		ug/kg	170	21.
4-Nitroaniline	ND		ug/kg	170	29.
Dibenzofuran	ND		ug/kg	170	12.
2-Methylnaphthalene	ND		ug/kg	200	19.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	11.
Acetophenone	ND		ug/kg	170	34.
2,4,6-Trichlorophenol	ND		ug/kg	100	29.
p-Chloro-m-cresol	ND		ug/kg	170	33.
2-Chlorophenol	ND		ug/kg	170	28.
2,4-Dichlorophenol	ND		ug/kg	170	23.
2,4-Dimethylphenol	ND		ug/kg	170	10.
2-Nitrophenol	ND		ug/kg	370	24.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/27/23 14:51
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 12:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,17-19 Batch: WG1781035-1					
4-Nitrophenol	ND		ug/kg	230	41.
2,4-Dinitrophenol	ND		ug/kg	800	30.
4,6-Dinitro-o-cresol	ND		ug/kg	430	20.
Pentachlorophenol	ND		ug/kg	130	27.
Phenol	ND		ug/kg	170	19.
2-Methylphenol	ND		ug/kg	170	48.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	36.
2,4,5-Trichlorophenol	ND		ug/kg	170	22.
Benzoic Acid	ND		ug/kg	530	42.
Benzyl Alcohol	ND		ug/kg	170	35.
Carbazole	ND		ug/kg	170	11.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**24**	Q	31-118
Phenol-d6	**25**	Q	37-126
Nitrobenzene-d5	**23**	Q	29-137
2-Fluorobiphenyl	**22**	Q	38-127
2,4,6-Tribromophenol	**24**	Q	40-130
4-Terphenyl-d14	**25**	Q	36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/21/23 14:05
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 03:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21 Batch: WG1781273-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/21/23 14:05
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 03:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21 Batch: WG1781273-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/21/23 14:05
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 03:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 21 Batch: WG1781273-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	75		41-149

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/20/23 17:56
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 03:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 21 Batch: WG1781274-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	0.02	J	ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	0.04	J	ug/l	0.10	0.02
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/20/23 17:56
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 03:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 21 Batch: WG1781274-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	90		41-149

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/24/23 13:20
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/23/23 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1782098-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	22	J	ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/24/23 13:20
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/23/23 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1782098-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	34	J	ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	25	J	ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	20	J	ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	34	J	ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/24/23 13:20
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/23/23 05:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1782098-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	102		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/24/23 10:48
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/23/23 10:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG1782300-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/24/23 10:48
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/23/23 10:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG1782300-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/24/23 10:48
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/23/23 10:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG1782300-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	75		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/26/23 10:30
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/25/23 15:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09,13-16 Batch: WG1783484-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/26/23 10:30
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/25/23 15:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09,13-16 Batch: WG1783484-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/26/23 10:30
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/25/23 15:08

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09,13-16 Batch: WG1783484-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	64		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/01/23 01:08
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 15:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1784992-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/01/23 01:08
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 15:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1784992-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/01/23 01:08
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 15:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1784992-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	71		18-120

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/31/23 18:17
Analyst: LJG

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,17-19 Batch: WG1785034-1					
Acenaphthene	ND		ug/kg	130	12.
1,2,4-Trichlorobenzene	ND		ug/kg	160	16.
Hexachlorobenzene	ND		ug/kg	98	16.
Bis(2-chloroethyl)ether	ND		ug/kg	160	20.
2-Chloronaphthalene	ND		ug/kg	160	9.8
1,2-Dichlorobenzene	ND		ug/kg	160	21.
1,3-Dichlorobenzene	ND		ug/kg	160	26.
1,4-Dichlorobenzene	ND		ug/kg	160	23.
3,3'-Dichlorobenzidine	ND		ug/kg	160	42.
2,4-Dinitrotoluene	ND		ug/kg	160	16.
2,6-Dinitrotoluene	ND		ug/kg	160	35.
Fluoranthene	ND		ug/kg	98	9.6
4-Chlorophenyl phenyl ether	ND		ug/kg	160	15.
4-Bromophenyl phenyl ether	ND		ug/kg	160	18.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	24.
Bis(2-chloroethoxy)methane	ND		ug/kg	160	20.
Hexachlorobutadiene	ND		ug/kg	160	25.
Hexachlorocyclopentadiene	ND		ug/kg	460	16.
Hexachloroethane	ND		ug/kg	130	22.
Isophorone	ND		ug/kg	160	20.
Naphthalene	ND		ug/kg	160	16.
Nitrobenzene	ND		ug/kg	160	15.
NDPA/DPA	ND		ug/kg	130	24.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	29.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	34.
Butyl benzyl phthalate	ND		ug/kg	160	35.
Di-n-butylphthalate	ND		ug/kg	160	36.
Di-n-octylphthalate	ND		ug/kg	160	28.
Diethyl phthalate	ND		ug/kg	160	13.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/31/23 18:17
Analyst: LJG

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,17-19 Batch: WG1785034-1					
Dimethyl phthalate	ND		ug/kg	160	9.3
Benzo(a)anthracene	ND		ug/kg	98	22.
Benzo(a)pyrene	ND		ug/kg	130	17.
Benzo(b)fluoranthene	ND		ug/kg	98	13.
Benzo(k)fluoranthene	ND		ug/kg	98	14.
Chrysene	ND		ug/kg	98	25.
Acenaphthylene	ND		ug/kg	130	16.
Anthracene	ND		ug/kg	98	22.
Benzo(ghi)perylene	ND		ug/kg	130	12.
Fluorene	ND		ug/kg	160	11.
Phenanthrene	ND		ug/kg	98	29.
Dibenzo(a,h)anthracene	ND		ug/kg	98	13.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	14.
Pyrene	ND		ug/kg	98	26.
Biphenyl	ND		ug/kg	360	12.
4-Chloroaniline	ND		ug/kg	160	41.
2-Nitroaniline	ND		ug/kg	160	23.
3-Nitroaniline	ND		ug/kg	160	20.
4-Nitroaniline	ND		ug/kg	160	29.
Dibenzofuran	ND		ug/kg	160	11.
2-Methylnaphthalene	ND		ug/kg	200	18.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	11.
Acetophenone	ND		ug/kg	160	34.
2,4,6-Trichlorophenol	ND		ug/kg	98	28.
p-Chloro-m-cresol	ND		ug/kg	160	33.
2-Chlorophenol	ND		ug/kg	160	28.
2,4-Dichlorophenol	ND		ug/kg	160	23.
2,4-Dimethylphenol	ND		ug/kg	160	10.
2-Nitrophenol	ND		ug/kg	360	23.

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/31/23 18:17
Analyst: LJG

Extraction Method: EPA 3540C
Extraction Date: 05/30/23 17:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12,17-19 Batch: WG1785034-1					
4-Nitrophenol	ND		ug/kg	230	40.
2,4-Dinitrophenol	ND		ug/kg	780	29.
4,6-Dinitro-o-cresol	ND		ug/kg	420	20.
Pentachlorophenol	ND		ug/kg	130	27.
Phenol	ND		ug/kg	160	19.
2-Methylphenol	ND		ug/kg	160	48.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	36.
2,4,5-Trichlorophenol	ND		ug/kg	160	21.
Benzoic Acid	ND		ug/kg	520	42.
Benzyl Alcohol	ND		ug/kg	160	34.
Carbazole	ND		ug/kg	160	11.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		31-118
Phenol-d6	79		37-126
Nitrobenzene-d5	76		29-137
2-Fluorobiphenyl	67		38-127
2,4,6-Tribromophenol	78		40-130
4-Terphenyl-d14	81		36-137

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 06/01/23 08:33
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 16:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 21 Batch: WG1785554-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	0.02	J	ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	0.04	J	ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	0.02	J	ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 06/01/23 08:33
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 16:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 21 Batch: WG1785554-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	74		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1778966-2 WG1778966-3								
Acenaphthene	59		58		31-137	2		50
1,2,4-Trichlorobenzene	60		59		38-107	2		50
Hexachlorobenzene	64		62		40-140	3		50
Bis(2-chloroethyl)ether	61		61		40-140	0		50
2-Chloronaphthalene	60		58		40-140	3		50
1,2-Dichlorobenzene	56		56		40-140	0		50
1,3-Dichlorobenzene	55		54		40-140	2		50
1,4-Dichlorobenzene	56		54		28-104	4		50
3,3'-Dichlorobenzidine	43		45		40-140	5		50
2,4-Dinitrotoluene	70		69		40-132	1		50
2,6-Dinitrotoluene	68		66		40-140	3		50
Fluoranthene	62		58		40-140	7		50
4-Chlorophenyl phenyl ether	59		59		40-140	0		50
4-Bromophenyl phenyl ether	64		62		40-140	3		50
Bis(2-chloroisopropyl)ether	47		47		40-140	0		50
Bis(2-chloroethoxy)methane	68		68		40-117	0		50
Hexachlorobutadiene	55		53		40-140	4		50
Hexachlorocyclopentadiene	43		41		40-140	5		50
Hexachloroethane	59		58		40-140	2		50
Isophorone	69		69		40-140	0		50
Naphthalene	58		56		40-140	4		50
Nitrobenzene	67		66		40-140	2		50
NDPA/DPA	63		62		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1778966-2 WG1778966-3								
n-Nitrosodi-n-propylamine	68		68		32-121	0		50
Bis(2-ethylhexyl)phthalate	67		65		40-140	3		50
Butyl benzyl phthalate	68		64		40-140	6		50
Di-n-butylphthalate	75		71		40-140	5		50
Di-n-octylphthalate	67		66		40-140	2		50
Diethyl phthalate	66		64		40-140	3		50
Dimethyl phthalate	64		62		40-140	3		50
Benzo(a)anthracene	59		58		40-140	2		50
Benzo(a)pyrene	66		66		40-140	0		50
Benzo(b)fluoranthene	60		60		40-140	0		50
Benzo(k)fluoranthene	61		60		40-140	2		50
Chrysene	57		56		40-140	2		50
Acenaphthylene	68		67		40-140	1		50
Anthracene	62		59		40-140	5		50
Benzo(ghi)perylene	64		62		40-140	3		50
Fluorene	62		61		40-140	2		50
Phenanthrene	58		57		40-140	2		50
Dibenzo(a,h)anthracene	63		62		40-140	2		50
Indeno(1,2,3-cd)pyrene	70		68		40-140	3		50
Pyrene	60		56		35-142	7		50
Biphenyl	61		60		37-127	2		50
4-Chloroaniline	49		46		40-140	6		50
2-Nitroaniline	72		70		47-134	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1778966-2 WG1778966-3								
3-Nitroaniline	58		57		26-129	2		50
4-Nitroaniline	64		62		41-125	3		50
Dibenzofuran	59		59		40-140	0		50
2-Methylnaphthalene	61		60		40-140	2		50
1,2,4,5-Tetrachlorobenzene	60		59		40-117	2		50
Acetophenone	65		64		14-144	2		50
2,4,6-Trichlorophenol	67		65		30-130	3		50
p-Chloro-m-cresol	69		68		26-103	1		50
2-Chlorophenol	63		62		25-102	2		50
2,4-Dichlorophenol	67		66		30-130	2		50
2,4-Dimethylphenol	60		62		30-130	3		50
2-Nitrophenol	76		76		30-130	0		50
4-Nitrophenol	71		70		11-114	1		50
2,4-Dinitrophenol	31		33		4-130	6		50
4,6-Dinitro-o-cresol	66		65		10-130	2		50
Pentachlorophenol	52		51		17-109	2		50
Phenol	62		59		26-90	5		50
2-Methylphenol	64		63		30-130.	2		50
3-Methylphenol/4-Methylphenol	66		67		30-130	2		50
2,4,5-Trichlorophenol	65		63		30-130	3		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	70		69		40-140	1		50
Carbazole	62		60		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10-11 Batch: WG1778966-2 WG1778966-3								
1,4-Dioxane	44		43		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		62		25-120
Phenol-d6	64		64		10-120
Nitrobenzene-d5	68		67		23-120
2-Fluorobiphenyl	60		58		30-120
2,4,6-Tribromophenol	73		70		10-136
4-Terphenyl-d14	60		56		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1781035-2 WG1781035-3								
Acenaphthene	57		60		42-111	5		50
1,2,4-Trichlorobenzene	51		53		42-103	4		50
Hexachlorobenzene	57		60		40-140	5		50
Bis(2-chloroethyl)ether	58		63		34-98	8		50
2-Chloronaphthalene	52		56		40-140	7		50
1,2-Dichlorobenzene	52		52		36-95	0		50
1,3-Dichlorobenzene	51		53		34-94	4		50
1,4-Dichlorobenzene	51		53		34-93	4		50
3,3'-Dichlorobenzidine	54		54		28-106	0		50
2,4-Dinitrotoluene	56		61		42-129	9		50
2,6-Dinitrotoluene	50		55		34-135	10		50
Fluoranthene	57		59		40-140	3		50
4-Chlorophenyl phenyl ether	57		61		40-140	7		50
4-Bromophenyl phenyl ether	54		60		40-140	11		50
Bis(2-chloroisopropyl)ether	59		63		12-107	7		50
Bis(2-chloroethoxy)methane	58		62		32-111	7		50
Hexachlorobutadiene	46		48		40-140	4		50
Hexachlorocyclopentadiene	**36**	Q	**39**	Q	40-140	8		50
Hexachloroethane	49		52		32-97	6		50
Isophorone	56		58		33-115	4		50
Naphthalene	54		56		37-106	4		50
Nitrobenzene	58		61		32-118	5		50
NDPA/DPA	59		63		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1781035-2 WG1781035-3								
n-Nitrosodi-n-propylamine	59		61		40-140	3		50
Bis(2-ethylhexyl)phthalate	67		70		40-140	4		50
Butyl benzyl phthalate	61		65		35-139	6		50
Di-n-butylphthalate	61		64		40-140	5		50
Di-n-octylphthalate	66		70		40-140	6		50
Diethyl phthalate	58		63		40-140	8		50
Dimethyl phthalate	52		57		40-140	9		50
Benzo(a)anthracene	58		61		40-140	5		50
Benzo(a)pyrene	63		66		40-140	5		50
Benzo(b)fluoranthene	55		58		40-140	5		50
Benzo(k)fluoranthene	62		66		40-140	6		50
Chrysene	60		62		40-140	3		50
Acenaphthylene	57		62		40-140	8		50
Anthracene	58		61		40-140	5		50
Benzo(ghi)perylene	59		61		40-140	3		50
Fluorene	58		63		40-140	8		50
Phenanthrene	55		59		40-140	7		50
Dibenzo(a,h)anthracene	58		60		40-140	3		50
Indeno(1,2,3-cd)pyrene	58		61		34-138	5		50
Pyrene	57		60		40-125	5		50
Biphenyl	52		56		37-127	7		50
4-Chloroaniline	47		48		15-137	2		50
2-Nitroaniline	55		58		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1781035-2 WG1781035-3								
3-Nitroaniline	56		58		26-129	4		50
4-Nitroaniline	61		65		41-125	6		50
Dibenzofuran	58		62		40-140	7		50
2-Methylnaphthalene	52		54		40-140	4		50
1,2,4,5-Tetrachlorobenzene	50		52		40-140	4		50
Acetophenone	58		60		40-140	3		50
2,4,6-Trichlorophenol	52		57		30-130	9		50
p-Chloro-m-cresol	56		61		40-140	9		50
2-Chlorophenol	54		57		37-112	5		50
2,4-Dichlorophenol	54		59		30-130	9		50
2,4-Dimethylphenol	48		55		30-130	14		50
2-Nitrophenol	53		57		30-130	7		50
4-Nitrophenol	64		68		39-161	6		50
2,4-Dinitrophenol	32		27		10-155	17		50
4,6-Dinitro-o-cresol	50		51		30-130	2		50
Pentachlorophenol	45		49		36-121	9		50
Phenol	60		62		36-117	3		50
2-Methylphenol	56		60		30-130	7		50
3-Methylphenol/4-Methylphenol	60		65		30-130	8		50
2,4,5-Trichlorophenol	53		59		30-130	11		50
Benzoic Acid	11		**0**	Q	10-110	NC		50
Benzyl Alcohol	58		63		40-140	8		50
Carbazole	59		61		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1781035-2 WG1781035-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		61		31-118
Phenol-d6	58		60		37-126
Nitrobenzene-d5	55		60		29-137
2-Fluorobiphenyl	53		57		38-127
2,4,6-Tribromophenol	58		63		40-130
4-Terphenyl-d14	55		57		36-137

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21 Batch: WG1781273-2 WG1781273-3								
Acenaphthene	70		57		37-111	20		30
1,2,4-Trichlorobenzene	74		58		39-98	24		30
Hexachlorobenzene	68		58		40-140	16		30
Bis(2-chloroethyl)ether	81		60		40-140	30		30
2-Chloronaphthalene	71		57		40-140	22		30
1,2-Dichlorobenzene	79		61		40-140	26		30
1,3-Dichlorobenzene	77		58		40-140	28		30
1,4-Dichlorobenzene	78		61		36-97	24		30
3,3'-Dichlorobenzidine	54		52		40-140	4		30
2,4-Dinitrotoluene	83		69		48-143	18		30
2,6-Dinitrotoluene	78		64		40-140	20		30
Fluoranthene	70		59		40-140	17		30
4-Chlorophenyl phenyl ether	71		57		40-140	22		30
4-Bromophenyl phenyl ether	68		59		40-140	14		30
Bis(2-chloroisopropyl)ether	88		66		40-140	29		30
Bis(2-chloroethoxy)methane	82		62		40-140	28		30
Hexachlorobutadiene	68		55		40-140	21		30
Hexachlorocyclopentadiene	70		54		40-140	26		30
Hexachloroethane	83		60		40-140	**32**	Q	30
Isophorone	74		55		40-140	29		30
Naphthalene	72		57		40-140	23		30
Nitrobenzene	82		61		40-140	29		30
NDPA/DPA	75		63		40-140	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21 Batch: WG1781273-2 WG1781273-3								
n-Nitrosodi-n-propylamine	71		60		29-132	17		30
Bis(2-ethylhexyl)phthalate	86		67		40-140	25		30
Butyl benzyl phthalate	84		73		40-140	14		30
Di-n-butylphthalate	81		70		40-140	15		30
Di-n-octylphthalate	91		68		40-140	29		30
Diethyl phthalate	80		70		40-140	13		30
Dimethyl phthalate	75		63		40-140	17		30
Benzo(a)anthracene	75		61		40-140	21		30
Benzo(a)pyrene	84		66		40-140	24		30
Benzo(b)fluoranthene	73		60		40-140	20		30
Benzo(k)fluoranthene	79		63		40-140	23		30
Chrysene	75		63		40-140	17		30
Acenaphthylene	72		56		45-123	25		30
Anthracene	74		63		40-140	16		30
Benzo(ghi)perylene	79		60		40-140	27		30
Fluorene	68		57		40-140	18		30
Phenanthrene	75		64		40-140	16		30
Dibenzo(a,h)anthracene	78		58		40-140	29		30
Indeno(1,2,3-cd)pyrene	77		61		40-140	23		30
Pyrene	70		60		26-127	15		30
Biphenyl	67		52		40-140	25		30
4-Chloroaniline	55		**28**	Q	40-140	**65**	Q	30
2-Nitroaniline	77		64		52-143	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21 Batch: WG1781273-2 WG1781273-3								
3-Nitroaniline	69		62		25-145	11		30
4-Nitroaniline	74		63		51-143	16		30
Dibenzofuran	75		61		40-140	21		30
2-Methylnaphthalene	73		57		40-140	25		30
1,2,4,5-Tetrachlorobenzene	62		50		2-134	21		30
Acetophenone	70		54		39-129	26		30
2,4,6-Trichlorophenol	70		58		30-130	19		30
p-Chloro-m-cresol	73		58		23-97	23		30
2-Chlorophenol	80		59		27-123	30		30
2,4-Dichlorophenol	80		65		30-130	21		30
2,4-Dimethylphenol	70		60		30-130	15		30
2-Nitrophenol	91		69		30-130	28		30
4-Nitrophenol	**81**	Q	69		10-80	16		30
2,4-Dinitrophenol	78		70		20-130	11		30
4,6-Dinitro-o-cresol	94		78		20-164	19		30
Pentachlorophenol	75		69		9-103	8		30
Phenol	50		40		12-110	22		30
2-Methylphenol	70		56		30-130	22		30
3-Methylphenol/4-Methylphenol	73		56		30-130	26		30
2,4,5-Trichlorophenol	70		58		30-130	19		30
Benzoic Acid	66		74		10-164	11		30
Benzyl Alcohol	68		48		26-116	**34**	Q	30
Carbazole	72		62		55-144	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET
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Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 21 Batch: WG1781273-2 WG1781273-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		49		21-120
Phenol-d6	47		41		10-120
Nitrobenzene-d5	82		63		23-120
2-Fluorobiphenyl	63		50		15-120
2,4,6-Tribromophenol	73		65		10-120
4-Terphenyl-d14	62		53		41-149

Lab Control Sample Analysis
Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 21 Batch: WG1781274-2 WG1781274-3								
Acenaphthene	72		61		40-140	17		40
2-Chloronaphthalene	82		67		40-140	20		40
Fluoranthene	73		63		40-140	15		40
Hexachlorobutadiene	87		69		40-140	23		40
Naphthalene	73		58		40-140	23		40
Benzo(a)anthracene	74		65		40-140	13		40
Benzo(a)pyrene	80		65		40-140	21		40
Benzo(b)fluoranthene	77		65		40-140	17		40
Benzo(k)fluoranthene	80		63		40-140	24		40
Chrysene	72		63		40-140	13		40
Acenaphthylene	84		70		40-140	18		40
Anthracene	73		63		40-140	15		40
Benzo(ghi)perylene	69		56		40-140	21		40
Fluorene	75		64		40-140	16		40
Phenanthrene	68		59		40-140	14		40
Dibenzo(a,h)anthracene	71		57		40-140	22		40
Indeno(1,2,3-cd)pyrene	65		53		40-140	20		40
Pyrene	72		63		40-140	13		40
2-Methylnaphthalene	80		64		40-140	22		40
Pentachlorophenol	98		91		40-140	7		40
Hexachlorobenzene	78		68		40-140	14		40
Hexachloroethane	70		55		40-140	24		40

Lab Control Sample Analysis
Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 21 Batch: WG1781274-2 WG1781274-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	55		48		21-120
Phenol-d6	47		41		10-120
Nitrobenzene-d5	82		66		23-120
2-Fluorobiphenyl	79		67		15-120
2,4,6-Tribromophenol	99		95		10-120
4-Terphenyl-d14	70		62		41-149

Lab Control Sample Analysis

Batch Quality Control

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Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1782098-2 WG1782098-3								
Acenaphthene	80		78		31-137	3		50
1,2,4-Trichlorobenzene	78		79		38-107	1		50
Hexachlorobenzene	92		87		40-140	6		50
Bis(2-chloroethyl)ether	65		63		40-140	3		50
2-Chloronaphthalene	83		79		40-140	5		50
1,2-Dichlorobenzene	74		70		40-140	6		50
1,3-Dichlorobenzene	74		68		40-140	8		50
1,4-Dichlorobenzene	73		69		28-104	6		50
3,3'-Dichlorobenzidine	63		62		40-140	2		50
2,4-Dinitrotoluene	84		84		40-132	0		50
2,6-Dinitrotoluene	90		84		40-140	7		50
Fluoranthene	83		80		40-140	4		50
4-Chlorophenyl phenyl ether	82		80		40-140	2		50
4-Bromophenyl phenyl ether	88		86		40-140	2		50
Bis(2-chloroisopropyl)ether	57		53		40-140	7		50
Bis(2-chloroethoxy)methane	75		72		40-117	4		50
Hexachlorobutadiene	77		76		40-140	1		50
Hexachlorocyclopentadiene	78		75		40-140	4		50
Hexachloroethane	70		72		40-140	3		50
Isophorone	72		69		40-140	4		50
Naphthalene	78		74		40-140	5		50
Nitrobenzene	70		68		40-140	3		50
NDPA/DPA	85		82		36-157	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1782098-2 WG1782098-3								
n-Nitrosodi-n-propylamine	70		66		32-121	6		50
Bis(2-ethylhexyl)phthalate	88		85		40-140	3		50
Butyl benzyl phthalate	87		83		40-140	5		50
Di-n-butylphthalate	84		82		40-140	2		50
Di-n-octylphthalate	106		87		40-140	20		50
Diethyl phthalate	82		82		40-140	0		50
Dimethyl phthalate	86		81		40-140	6		50
Benzo(a)anthracene	85		81		40-140	5		50
Benzo(a)pyrene	110		88		40-140	22		50
Benzo(b)fluoranthene	104		84		40-140	21		50
Benzo(k)fluoranthene	97		77		40-140	23		50
Chrysene	84		80		40-140	5		50
Acenaphthylene	91		86		40-140	6		50
Anthracene	82		80		40-140	2		50
Benzo(ghi)perylene	80		79		40-140	1		50
Fluorene	82		80		40-140	2		50
Phenanthrene	79		77		40-140	3		50
Dibenzo(a,h)anthracene	81		78		40-140	4		50
Indeno(1,2,3-cd)pyrene	85		82		40-140	4		50
Pyrene	83		81		35-142	2		50
Biphenyl	83		79		37-127	5		50
4-Chloroaniline	56		65		40-140	15		50
2-Nitroaniline	88		85		47-134	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1782098-2 WG1782098-3								
3-Nitroaniline	72		70		26-129	3		50
4-Nitroaniline	80		78		41-125	3		50
Dibenzofuran	81		80		40-140	1		50
2-Methylnaphthalene	84		78		40-140	7		50
1,2,4,5-Tetrachlorobenzene	85		78		40-117	9		50
Acetophenone	76		73		14-144	4		50
2,4,6-Trichlorophenol	88		86		30-130	2		50
p-Chloro-m-cresol	87		82		26-103	6		50
2-Chlorophenol	79		76		25-102	4		50
2,4-Dichlorophenol	84		83		30-130	1		50
2,4-Dimethylphenol	88		84		30-130	5		50
2-Nitrophenol	80		79		30-130	1		50
4-Nitrophenol	82		81		11-114	1		50
2,4-Dinitrophenol	55		52		4-130	6		50
4,6-Dinitro-o-cresol	91		89		10-130	2		50
Pentachlorophenol	83		77		17-109	8		50
Phenol	77		70		26-90	10		50
2-Methylphenol	80		76		30-130.	5		50
3-Methylphenol/4-Methylphenol	86		83		30-130	4		50
2,4,5-Trichlorophenol	93		86		30-130	8		50
Benzoic Acid	19		18		10-110	5		50
Benzyl Alcohol	75		70		40-140	7		50
Carbazole	81		78		54-128	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1782098-2 WG1782098-3								
1,4-Dioxane	58		52		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		77		25-120
Phenol-d6	86		77		10-120
Nitrobenzene-d5	78		75		23-120
2-Fluorobiphenyl	92		84		30-120
2,4,6-Tribromophenol	111		98		10-136
4-Terphenyl-d14	90		83		18-120

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1782300-2 WG1782300-3								
Acenaphthene	53		59		31-137	11		50
1,2,4-Trichlorobenzene	52		58		38-107	11		50
Hexachlorobenzene	53		59		40-140	11		50
Bis(2-chloroethyl)ether	50		55		40-140	10		50
2-Chloronaphthalene	56		60		40-140	7		50
1,2-Dichlorobenzene	52		57		40-140	9		50
1,3-Dichlorobenzene	51		56		40-140	9		50
1,4-Dichlorobenzene	51		55		28-104	8		50
3,3'-Dichlorobenzidine	50		56		40-140	11		50
2,4-Dinitrotoluene	80		92		40-132	14		50
2,6-Dinitrotoluene	72		80		40-140	11		50
Fluoranthene	58		64		40-140	10		50
4-Chlorophenyl phenyl ether	55		59		40-140	7		50
4-Bromophenyl phenyl ether	55		60		40-140	9		50
Bis(2-chloroisopropyl)ether	51		56		40-140	9		50
Bis(2-chloroethoxy)methane	52		58		40-117	11		50
Hexachlorobutadiene	54		56		40-140	4		50
Hexachlorocyclopentadiene	**19**	Q	**23**	Q	40-140	19		50
Hexachloroethane	56		61		40-140	9		50
Isophorone	52		57		40-140	9		50
Naphthalene	54		57		40-140	5		50
Nitrobenzene	56		61		40-140	9		50
NDPA/DPA	57		62		36-157	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1782300-2 WG1782300-3								
n-Nitrosodi-n-propylamine	53		58		32-121	9		50
Bis(2-ethylhexyl)phthalate	82		90		40-140	9		50
Butyl benzyl phthalate	79		85		40-140	7		50
Di-n-butylphthalate	70		77		40-140	10		50
Di-n-octylphthalate	92		101		40-140	9		50
Diethyl phthalate	61		67		40-140	9		50
Dimethyl phthalate	59		65		40-140	10		50
Benzo(a)anthracene	61		66		40-140	8		50
Benzo(a)pyrene	69		74		40-140	7		50
Benzo(b)fluoranthene	61		65		40-140	6		50
Benzo(k)fluoranthene	64		70		40-140	9		50
Chrysene	58		64		40-140	10		50
Acenaphthylene	60		66		40-140	10		50
Anthracene	57		62		40-140	8		50
Benzo(ghi)perylene	56		61		40-140	9		50
Fluorene	54		59		40-140	9		50
Phenanthrene	55		60		40-140	9		50
Dibenzo(a,h)anthracene	57		61		40-140	7		50
Indeno(1,2,3-cd)pyrene	58		63		40-140	8		50
Pyrene	59		64		35-142	8		50
Biphenyl	56		59		37-127	5		50
4-Chloroaniline	**34**	Q	**37**	Q	40-140	8		50
2-Nitroaniline	74		82		47-134	10		50

Lab Control Sample Analysis

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Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1782300-2 WG1782300-3								
3-Nitroaniline	53		56		26-129	6		50
4-Nitroaniline	61		68		41-125	11		50
Dibenzofuran	56		60		40-140	7		50
2-Methylnaphthalene	56		59		40-140	5		50
1,2,4,5-Tetrachlorobenzene	54		58		40-117	7		50
Acetophenone	57		62		14-144	8		50
2,4,6-Trichlorophenol	60		66		30-130	10		50
p-Chloro-m-cresol	64		70		26-103	9		50
2-Chlorophenol	59		63		25-102	7		50
2,4-Dichlorophenol	59		65		30-130	10		50
2,4-Dimethylphenol	56		62		30-130	10		50
2-Nitrophenol	74		82		30-130	10		50
4-Nitrophenol	54		63		11-114	15		50
2,4-Dinitrophenol	37		44		4-130	17		50
4,6-Dinitro-o-cresol	70		82		10-130	16		50
Pentachlorophenol	28		35		17-109	22		50
Phenol	60		66		26-90	10		50
2-Methylphenol	55		61		30-130.	10		50
3-Methylphenol/4-Methylphenol	56		63		30-130	12		50
2,4,5-Trichlorophenol	60		65		30-130	8		50
Benzoic Acid	16		20		10-110	22		50
Benzyl Alcohol	55		60		40-140	9		50
Carbazole	59		64		54-128	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG1782300-2 WG1782300-3								
1,4-Dioxane	46		50		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		67		25-120
Phenol-d6	58		64		10-120
Nitrobenzene-d5	60		65		23-120
2-Fluorobiphenyl	55		60		30-120
2,4,6-Tribromophenol	56		62		10-136
4-Terphenyl-d14	56		62		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,13-16 Batch: WG1783484-2 WG1783484-3								
Acenaphthene	66		65		31-137	2		50
1,2,4-Trichlorobenzene	60		57		38-107	5		50
Hexachlorobenzene	63		59		40-140	7		50
Bis(2-chloroethyl)ether	71		70		40-140	1		50
2-Chloronaphthalene	61		59		40-140	3		50
1,2-Dichlorobenzene	62		61		40-140	2		50
1,3-Dichlorobenzene	62		61		40-140	2		50
1,4-Dichlorobenzene	60		61		28-104	2		50
3,3'-Dichlorobenzidine	51		54		40-140	6		50
2,4-Dinitrotoluene	64		57		40-132	12		50
2,6-Dinitrotoluene	54		52		40-140	4		50
Fluoranthene	62		62		40-140	0		50
4-Chlorophenyl phenyl ether	64		60		40-140	6		50
4-Bromophenyl phenyl ether	61		59		40-140	3		50
Bis(2-chloroisopropyl)ether	71		70		40-140	1		50
Bis(2-chloroethoxy)methane	69		63		40-117	9		50
Hexachlorobutadiene	59		61		40-140	3		50
Hexachlorocyclopentadiene	47		45		40-140	4		50
Hexachloroethane	60		61		40-140	2		50
Isophorone	64		60		40-140	6		50
Naphthalene	64		66		40-140	3		50
Nitrobenzene	66		63		40-140	5		50
NDPA/DPA	66		62		36-157	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,13-16 Batch: WG1783484-2 WG1783484-3								
n-Nitrosodi-n-propylamine	69		64		32-121	8		50
Bis(2-ethylhexyl)phthalate	74		70		40-140	6		50
Butyl benzyl phthalate	69		66		40-140	4		50
Di-n-butylphthalate	69		66		40-140	4		50
Di-n-octylphthalate	74		73		40-140	1		50
Diethyl phthalate	66		62		40-140	6		50
Dimethyl phthalate	55		52		40-140	6		50
Benzo(a)anthracene	66		64		40-140	3		50
Benzo(a)pyrene	72		78		40-140	8		50
Benzo(b)fluoranthene	62		66		40-140	6		50
Benzo(k)fluoranthene	71		73		40-140	3		50
Chrysene	65		67		40-140	3		50
Acenaphthylene	64		62		40-140	3		50
Anthracene	65		64		40-140	2		50
Benzo(ghi)perylene	68		70		40-140	3		50
Fluorene	65		62		40-140	5		50
Phenanthrene	64		63		40-140	2		50
Dibenzo(a,h)anthracene	66		66		40-140	0		50
Indeno(1,2,3-cd)pyrene	68		68		40-140	0		50
Pyrene	63		62		35-142	2		50
Biphenyl	60		58		37-127	3		50
4-Chloroaniline	50		53		40-140	6		50
2-Nitroaniline	57		55		47-134	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,13-16 Batch: WG1783484-2 WG1783484-3								
3-Nitroaniline	51		51		26-129	0		50
4-Nitroaniline	64		62		41-125	3		50
Dibenzofuran	67		66		40-140	2		50
2-Methylnaphthalene	61		60		40-140	2		50
1,2,4,5-Tetrachlorobenzene	58		58		40-117	0		50
Acetophenone	66		65		14-144	2		50
2,4,6-Trichlorophenol	57		54		30-130	5		50
p-Chloro-m-cresol	61		58		26-103	5		50
2-Chlorophenol	64		63		25-102	2		50
2,4-Dichlorophenol	61		55		30-130	10		50
2,4-Dimethylphenol	63		57		30-130	10		50
2-Nitrophenol	62		59		30-130	5		50
4-Nitrophenol	63		61		11-114	3		50
2,4-Dinitrophenol	45		41		4-130	9		50
4,6-Dinitro-o-cresol	63		56		10-130	12		50
Pentachlorophenol	52		48		17-109	8		50
Phenol	68		64		26-90	6		50
2-Methylphenol	66		61		30-130.	8		50
3-Methylphenol/4-Methylphenol	72		67		30-130	7		50
2,4,5-Trichlorophenol	58		55		30-130	5		50
Benzoic Acid	17		18		10-110	6		50
Benzyl Alcohol	66		64		40-140	3		50
Carbazole	65		62		54-128	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,13-16 Batch: WG1783484-2 WG1783484-3								
1,4-Dioxane	56		60		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		71		25-120
Phenol-d6	70		67		10-120
Nitrobenzene-d5	66		63		23-120
2-Fluorobiphenyl	62		61		30-120
2,4,6-Tribromophenol	66		61		10-136
4-Terphenyl-d14	63		61		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1784992-2 WG1784992-3								
Acenaphthene	71		70		31-137	1		50
1,2,4-Trichlorobenzene	72		66		38-107	9		50
Hexachlorobenzene	70		70		40-140	0		50
Bis(2-chloroethyl)ether	81		74		40-140	9		50
2-Chloronaphthalene	70		71		40-140	1		50
1,2-Dichlorobenzene	72		66		40-140	9		50
1,3-Dichlorobenzene	72		66		40-140	9		50
1,4-Dichlorobenzene	72		66		28-104	9		50
3,3'-Dichlorobenzidine	53		59		40-140	11		50
2,4-Dinitrotoluene	72		74		40-132	3		50
2,6-Dinitrotoluene	69		65		40-140	6		50
Fluoranthene	71		71		40-140	0		50
4-Chlorophenyl phenyl ether	70		70		40-140	0		50
4-Bromophenyl phenyl ether	69		69		40-140	0		50
Bis(2-chloroisopropyl)ether	85		78		40-140	9		50
Bis(2-chloroethoxy)methane	84		76		40-117	10		50
Hexachlorobutadiene	61		59		40-140	3		50
Hexachlorocyclopentadiene	48		45		40-140	6		50
Hexachloroethane	71		64		40-140	10		50
Isophorone	79		73		40-140	8		50
Naphthalene	71		70		40-140	1		50
Nitrobenzene	80		70		40-140	13		50
NDPA/DPA	74		75		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1784992-2 WG1784992-3								
n-Nitrosodi-n-propylamine	84		77		32-121	9		50
Bis(2-ethylhexyl)phthalate	82		83		40-140	1		50
Butyl benzyl phthalate	79		76		40-140	4		50
Di-n-butylphthalate	78		76		40-140	3		50
Di-n-octylphthalate	81		82		40-140	1		50
Diethyl phthalate	75		74		40-140	1		50
Dimethyl phthalate	71		69		40-140	3		50
Benzo(a)anthracene	69		71		40-140	3		50
Benzo(a)pyrene	77		78		40-140	1		50
Benzo(b)fluoranthene	65		68		40-140	5		50
Benzo(k)fluoranthene	78		77		40-140	1		50
Chrysene	72		74		40-140	3		50
Acenaphthylene	78		76		40-140	3		50
Anthracene	72		73		40-140	1		50
Benzo(ghi)perylene	71		72		40-140	1		50
Fluorene	74		73		40-140	1		50
Phenanthrene	70		69		40-140	1		50
Dibenzo(a,h)anthracene	71		71		40-140	0		50
Indeno(1,2,3-cd)pyrene	71		72		40-140	1		50
Pyrene	72		71		35-142	1		50
Biphenyl	69		69		37-127	0		50
4-Chloroaniline	73		77		40-140	5		50
2-Nitroaniline	73		74		47-134	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1784992-2 WG1784992-3								
3-Nitroaniline	66		72		26-129	9		50
4-Nitroaniline	76		75		41-125	1		50
Dibenzofuran	73		72		40-140	1		50
2-Methylnaphthalene	69		68		40-140	1		50
1,2,4,5-Tetrachlorobenzene	68		66		40-117	3		50
Acetophenone	80		75		14-144	6		50
2,4,6-Trichlorophenol	69		67		30-130	3		50
p-Chloro-m-cresol	77		75		26-103	3		50
2-Chlorophenol	78		72		25-102	8		50
2,4-Dichlorophenol	78		72		30-130	8		50
2,4-Dimethylphenol	77		72		30-130	7		50
2-Nitrophenol	78		72		30-130	8		50
4-Nitrophenol	81		78		11-114	4		50
2,4-Dinitrophenol	24		**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	57		53		10-130	7		50
Pentachlorophenol	53		52		17-109	2		50
Phenol	82		78		26-90	5		50
2-Methylphenol	81		77		30-130.	5		50
3-Methylphenol/4-Methylphenol	87		82		30-130	6		50
2,4,5-Trichlorophenol	72		71		30-130	1		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	84		78		40-140	7		50
Carbazole	74		74		54-128	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1784992-2 WG1784992-3								
1,4-Dioxane	60		56		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	82		74		25-120
Phenol-d6	82		77		10-120
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	73		70		30-120
2,4,6-Tribromophenol	75		74		10-136
4-Terphenyl-d14	71		71		18-120

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1785034-2 WG1785034-3								
Acenaphthene	79		81		42-111	3		50
1,2,4-Trichlorobenzene	64		66		42-103	3		50
Hexachlorobenzene	72		74		40-140	3		50
Bis(2-chloroethyl)ether	74		75		34-98	1		50
2-Chloronaphthalene	66		67		40-140	2		50
1,2-Dichlorobenzene	69		70		36-95	1		50
1,3-Dichlorobenzene	70		71		34-94	1		50
1,4-Dichlorobenzene	70		71		34-93	1		50
3,3'-Dichlorobenzidine	53		56		28-106	6		50
2,4-Dinitrotoluene	82		83		42-129	1		50
2,6-Dinitrotoluene	68		66		34-135	3		50
Fluoranthene	78		82		40-140	5		50
4-Chlorophenyl phenyl ether	72		74		40-140	3		50
4-Bromophenyl phenyl ether	71		74		40-140	4		50
Bis(2-chloroisopropyl)ether	68		71		12-107	4		50
Bis(2-chloroethoxy)methane	76		78		32-111	3		50
Hexachlorobutadiene	55		56		40-140	2		50
Hexachlorocyclopentadiene	48		48		40-140	0		50
Hexachloroethane	69		72		32-97	4		50
Isophorone	73		76		33-115	4		50
Naphthalene	75		76		37-106	1		50
Nitrobenzene	71		72		32-118	1		50
NDPA/DPA	81		83		40-140	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1785034-2 WG1785034-3								
n-Nitrosodi-n-propylamine	73		74		40-140	1		50
Bis(2-ethylhexyl)phthalate	93		97		40-140	4		50
Butyl benzyl phthalate	92		94		35-139	2		50
Di-n-butylphthalate	94		96		40-140	2		50
Di-n-octylphthalate	90		93		40-140	3		50
Diethyl phthalate	84		87		40-140	4		50
Dimethyl phthalate	68		68		40-140	0		50
Benzo(a)anthracene	73		75		40-140	3		50
Benzo(a)pyrene	77		80		40-140	4		50
Benzo(b)fluoranthene	71		73		40-140	3		50
Benzo(k)fluoranthene	77		80		40-140	4		50
Chrysene	76		80		40-140	5		50
Acenaphthylene	75		76		40-140	1		50
Anthracene	83		86		40-140	4		50
Benzo(ghi)perylene	71		74		40-140	4		50
Fluorene	80		82		40-140	2		50
Phenanthrene	80		83		40-140	4		50
Dibenzo(a,h)anthracene	69		73		40-140	6		50
Indeno(1,2,3-cd)pyrene	71		75		34-138	5		50
Pyrene	80		82		40-125	2		50
Biphenyl	72		73		37-127	1		50
4-Chloroaniline	58		57		15-137	2		50
2-Nitroaniline	74		75		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1785034-2 WG1785034-3								
3-Nitroaniline	71		73		26-129	3		50
4-Nitroaniline	87		86		41-125	1		50
Dibenzofuran	78		80		40-140	3		50
2-Methylnaphthalene	75		76		40-140	1		50
1,2,4,5-Tetrachlorobenzene	64		65		40-140	2		50
Acetophenone	80		82		40-140	2		50
2,4,6-Trichlorophenol	65		67		30-130	3		50
p-Chloro-m-cresol	80		79		40-140	1		50
2-Chlorophenol	82		84		37-112	2		50
2,4-Dichlorophenol	74		76		30-130	3		50
2,4-Dimethylphenol	75		77		30-130	3		50
2-Nitrophenol	77		81		30-130	5		50
4-Nitrophenol	82		82		39-161	0		50
2,4-Dinitrophenol	16		15		10-155	6		50
4,6-Dinitro-o-cresol	48		51		30-130	6		50
Pentachlorophenol	51		52		36-121	2		50
Phenol	89		90		36-117	1		50
2-Methylphenol	83		85		30-130	2		50
3-Methylphenol/4-Methylphenol	82		84		30-130	2		50
2,4,5-Trichlorophenol	65		67		30-130	3		50
Benzoic Acid	**2**	Q	**2**	Q	10-110	22		50
Benzyl Alcohol	80		81		40-140	1		50
Carbazole	87		90		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12,17-19 Batch: WG1785034-2 WG1785034-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		88		31-118
Phenol-d6	82		84		37-126
Nitrobenzene-d5	73		76		29-137
2-Fluorobiphenyl	65		67		38-127
2,4,6-Tribromophenol	77		79		40-130
4-Terphenyl-d14	74		76		36-137

Lab Control Sample Analysis

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 21 Batch: WG1785554-2 WG1785554-3								
Acenaphthene	64		64		40-140	0		40
2-Chloronaphthalene	64		64		40-140	0		40
Fluoranthene	70		69		40-140	1		40
Hexachlorobutadiene	59		57		40-140	3		40
Naphthalene	62		61		40-140	2		40
Benzo(a)anthracene	74		73		40-140	1		40
Benzo(a)pyrene	75		75		40-140	0		40
Benzo(b)fluoranthene	69		70		40-140	1		40
Benzo(k)fluoranthene	68		68		40-140	0		40
Chrysene	68		68		40-140	0		40
Acenaphthylene	72		72		40-140	0		40
Anthracene	70		69		40-140	1		40
Benzo(ghi)perylene	76		71		40-140	7		40
Fluorene	67		67		40-140	0		40
Phenanthrene	63		63		40-140	0		40
Dibenzo(a,h)anthracene	75		70		40-140	7		40
Indeno(1,2,3-cd)pyrene	76		72		40-140	5		40
Pyrene	68		67		40-140	1		40
2-Methylnaphthalene	66		66		40-140	0		40
Pentachlorophenol	82		88		40-140	7		40
Hexachlorobenzene	59		58		40-140	2		40
Hexachloroethane	61		59		40-140	3		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 21 Batch: WG1785554-2 WG1785554-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		58		21-120
Phenol-d6	48		49		10-120
Nitrobenzene-d5	76		77		23-120
2-Fluorobiphenyl	65		66		15-120
2,4,6-Tribromophenol	99		100		10-120
4-Terphenyl-d14	68		68		41-149

PCBS

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/24/23 12:36
Analyst: JM
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/23/23 04:54
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.6	5.21	1	A
Aroclor 1221	ND		ug/kg	58.6	5.88	1	A
Aroclor 1232	ND		ug/kg	58.6	12.4	1	A
Aroclor 1242	ND		ug/kg	58.6	7.90	1	A
Aroclor 1248	ND		ug/kg	58.6	8.80	1	A
Aroclor 1254	ND		ug/kg	58.6	6.42	1	A
Aroclor 1260	ND		ug/kg	58.6	10.8	1	A
Aroclor 1262	ND		ug/kg	58.6	7.45	1	A
Aroclor 1268	ND		ug/kg	58.6	6.08	1	A
PCBs, Total	ND		ug/kg	58.6	5.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/24/23 12:44
Analyst: JM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/23/23 04:54
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	53.9	4.79	1	A
Aroclor 1221	ND		ug/kg	53.9	5.40	1	A
Aroclor 1232	ND		ug/kg	53.9	11.4	1	A
Aroclor 1242	ND		ug/kg	53.9	7.27	1	A
Aroclor 1248	ND		ug/kg	53.9	8.09	1	A
Aroclor 1254	ND		ug/kg	53.9	5.90	1	A
Aroclor 1260	17.4	J	ug/kg	53.9	9.97	1	A
Aroclor 1262	ND		ug/kg	53.9	6.85	1	A
Aroclor 1268	11.0	J	ug/kg	53.9	5.59	1	A
PCBs, Total	28.4	J	ug/kg	53.9	4.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 00:50
Analyst: JM
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.3	4.82	1	A
Aroclor 1221	ND		ug/kg	54.3	5.44	1	A
Aroclor 1232	ND		ug/kg	54.3	11.5	1	A
Aroclor 1242	ND		ug/kg	54.3	7.32	1	A
Aroclor 1248	ND		ug/kg	54.3	8.15	1	A
Aroclor 1254	ND		ug/kg	54.3	5.94	1	A
Aroclor 1260	ND		ug/kg	54.3	10.0	1	A
Aroclor 1262	ND		ug/kg	54.3	6.90	1	A
Aroclor 1268	ND		ug/kg	54.3	5.63	1	A
PCBs, Total	ND		ug/kg	54.3	4.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 00:59
Analyst: JM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.9	4.88	1	A
Aroclor 1221	ND		ug/kg	54.9	5.50	1	A
Aroclor 1232	ND		ug/kg	54.9	11.6	1	A
Aroclor 1242	ND		ug/kg	54.9	7.40	1	A
Aroclor 1248	ND		ug/kg	54.9	8.24	1	A
Aroclor 1254	ND		ug/kg	54.9	6.01	1	A
Aroclor 1260	ND		ug/kg	54.9	10.1	1	A
Aroclor 1262	ND		ug/kg	54.9	6.97	1	A
Aroclor 1268	ND		ug/kg	54.9	5.69	1	A
PCBs, Total	ND		ug/kg	54.9	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 01:07
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.4	4.84	1	A
Aroclor 1221	ND		ug/kg	54.4	5.46	1	A
Aroclor 1232	ND		ug/kg	54.4	11.5	1	A
Aroclor 1242	ND		ug/kg	54.4	7.34	1	A
Aroclor 1248	ND		ug/kg	54.4	8.17	1	A
Aroclor 1254	ND		ug/kg	54.4	5.96	1	A
Aroclor 1260	ND		ug/kg	54.4	10.1	1	A
Aroclor 1262	ND		ug/kg	54.4	6.92	1	A
Aroclor 1268	ND		ug/kg	54.4	5.64	1	A
PCBs, Total	ND		ug/kg	54.4	4.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 01:16
Analyst: JM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.0	4.79	1	A
Aroclor 1221	ND		ug/kg	54.0	5.41	1	A
Aroclor 1232	ND		ug/kg	54.0	11.4	1	A
Aroclor 1242	ND		ug/kg	54.0	7.27	1	A
Aroclor 1248	ND		ug/kg	54.0	8.09	1	A
Aroclor 1254	ND		ug/kg	54.0	5.90	1	A
Aroclor 1260	ND		ug/kg	54.0	9.97	1	A
Aroclor 1262	ND		ug/kg	54.0	6.85	1	A
Aroclor 1268	ND		ug/kg	54.0	5.59	1	A
PCBs, Total	ND		ug/kg	54.0	4.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 01:24
Analyst: JM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.1	5.16	1	A
Aroclor 1221	ND		ug/kg	58.1	5.82	1	A
Aroclor 1232	ND		ug/kg	58.1	12.3	1	A
Aroclor 1242	ND		ug/kg	58.1	7.83	1	A
Aroclor 1248	ND		ug/kg	58.1	8.71	1	A
Aroclor 1254	ND		ug/kg	58.1	6.35	1	A
Aroclor 1260	ND		ug/kg	58.1	10.7	1	A
Aroclor 1262	ND		ug/kg	58.1	7.38	1	A
Aroclor 1268	ND		ug/kg	58.1	6.02	1	A
PCBs, Total	ND		ug/kg	58.1	5.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 01:33
Analyst: JM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.0	4.97	1	A
Aroclor 1221	ND		ug/kg	56.0	5.61	1	A
Aroclor 1232	ND		ug/kg	56.0	11.9	1	A
Aroclor 1242	ND		ug/kg	56.0	7.55	1	A
Aroclor 1248	ND		ug/kg	56.0	8.40	1	A
Aroclor 1254	ND		ug/kg	56.0	6.13	1	A
Aroclor 1260	ND		ug/kg	56.0	10.4	1	A
Aroclor 1262	ND		ug/kg	56.0	7.11	1	A
Aroclor 1268	ND		ug/kg	56.0	5.80	1	A
PCBs, Total	ND		ug/kg	56.0	4.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY

Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/28/23 10:57
Analyst: ER
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 05/27/23 11:57
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.1	4.45	1	A
Aroclor 1221	ND		ug/kg	50.1	5.02	1	A
Aroclor 1232	ND		ug/kg	50.1	10.6	1	A
Aroclor 1242	ND		ug/kg	50.1	6.76	1	A
Aroclor 1248	ND		ug/kg	50.1	7.52	1	A
Aroclor 1254	205		ug/kg	50.1	5.48	1	A
Aroclor 1260	185		ug/kg	50.1	9.27	1	B
Aroclor 1262	ND		ug/kg	50.1	6.37	1	A
Aroclor 1268	ND		ug/kg	50.1	5.20	1	A
PCBs, Total	390		ug/kg	50.1	4.45	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10 D
Client ID: WOOD-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/18/23 10:40
Analyst: MEO
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	510	45.3	5	A
Aroclor 1221	ND		ug/kg	510	51.1	5	A
Aroclor 1232	ND		ug/kg	510	108.	5	A
Aroclor 1242	ND		ug/kg	510	68.8	5	A
Aroclor 1248	4140		ug/kg	510	76.5	5	A
Aroclor 1254	7900		ug/kg	510	55.8	5	B
Aroclor 1260	ND		ug/kg	510	94.2	5	A
Aroclor 1262	ND		ug/kg	510	64.8	5	A
Aroclor 1268	ND		ug/kg	510	52.8	5	A
PCBs, Total	12000		ug/kg	510	45.3	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11 D
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/18/23 10:48
Analyst: MEO
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	508	45.1	5	A
Aroclor 1221	ND		ug/kg	508	50.9	5	A
Aroclor 1232	ND		ug/kg	508	108.	5	A
Aroclor 1242	ND		ug/kg	508	68.5	5	A
Aroclor 1248	1280		ug/kg	508	76.2	5	A
Aroclor 1254	1490		ug/kg	508	55.6	5	B
Aroclor 1260	ND		ug/kg	508	93.9	5	A
Aroclor 1262	ND		ug/kg	508	64.6	5	A
Aroclor 1268	ND		ug/kg	508	52.7	5	A
PCBs, Total	2770		ug/kg	508	45.1	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 05/22/23 19:47
Analyst: JM
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/21/23 12:50
Cleanup Method: EPA 3665A
Cleanup Date: 05/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	91.5	8.12	1	A
Aroclor 1221	ND		ug/kg	91.5	9.16	1	A
Aroclor 1232	ND		ug/kg	91.5	19.4	1	A
Aroclor 1242	ND		ug/kg	91.5	12.3	1	A
Aroclor 1248	ND		ug/kg	91.5	13.7	1	A
Aroclor 1254	ND		ug/kg	91.5	10.0	1	A
Aroclor 1260	ND		ug/kg	91.5	16.9	1	A
Aroclor 1262	ND		ug/kg	91.5	11.6	1	A
Aroclor 1268	ND		ug/kg	91.5	9.48	1	A
PCBs, Total	ND		ug/kg	91.5	8.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 16:43
Analyst: MEO
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 20:03
Cleanup Method: EPA 3665A
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.9	4.97	1	A
Aroclor 1221	ND		ug/kg	55.9	5.60	1	A
Aroclor 1232	ND		ug/kg	55.9	11.9	1	A
Aroclor 1242	ND		ug/kg	55.9	7.54	1	A
Aroclor 1248	ND		ug/kg	55.9	8.39	1	A
Aroclor 1254	ND		ug/kg	55.9	6.12	1	A
Aroclor 1260	ND		ug/kg	55.9	10.3	1	A
Aroclor 1262	ND		ug/kg	55.9	7.10	1	A
Aroclor 1268	ND		ug/kg	55.9	5.80	1	A
PCBs, Total	ND		ug/kg	55.9	4.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 15:52
Analyst: MEO
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 20:03
Cleanup Method: EPA 3665A
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	61.7	5.48	1	A
Aroclor 1221	ND		ug/kg	61.7	6.18	1	A
Aroclor 1232	ND		ug/kg	61.7	13.1	1	A
Aroclor 1242	ND		ug/kg	61.7	8.31	1	A
Aroclor 1248	ND		ug/kg	61.7	9.25	1	A
Aroclor 1254	ND		ug/kg	61.7	6.75	1	A
Aroclor 1260	ND		ug/kg	61.7	11.4	1	A
Aroclor 1262	ND		ug/kg	61.7	7.83	1	A
Aroclor 1268	ND		ug/kg	61.7	6.39	1	A
PCBs, Total	ND		ug/kg	61.7	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 16:00
Analyst: MEO
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 20:03
Cleanup Method: EPA 3665A
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.4	4.92	1	A
Aroclor 1221	ND		ug/kg	55.4	5.55	1	A
Aroclor 1232	ND		ug/kg	55.4	11.8	1	A
Aroclor 1242	ND		ug/kg	55.4	7.47	1	A
Aroclor 1248	ND		ug/kg	55.4	8.31	1	A
Aroclor 1254	ND		ug/kg	55.4	6.06	1	A
Aroclor 1260	ND		ug/kg	55.4	10.2	1	A
Aroclor 1262	ND		ug/kg	55.4	7.04	1	A
Aroclor 1268	ND		ug/kg	55.4	5.74	1	A
PCBs, Total	ND		ug/kg	55.4	4.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/26/23 16:09
Analyst: MEO
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 20:03
Cleanup Method: EPA 3665A
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	4.90	1	A
Aroclor 1221	ND		ug/kg	55.2	5.54	1	A
Aroclor 1232	ND		ug/kg	55.2	11.7	1	A
Aroclor 1242	ND		ug/kg	55.2	7.45	1	A
Aroclor 1248	ND		ug/kg	55.2	8.29	1	A
Aroclor 1254	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	ND		ug/kg	55.2	10.2	1	A
Aroclor 1262	ND		ug/kg	55.2	7.02	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	ND		ug/kg	55.2	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 05/19/23 20:01
Analyst: RMP
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 05/18/23 15:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	95.7	8.50	1	A
Aroclor 1221	ND		ug/kg	95.7	9.59	1	A
Aroclor 1232	ND		ug/kg	95.7	20.3	1	A
Aroclor 1242	ND		ug/kg	95.7	12.9	1	A
Aroclor 1248	143		ug/kg	95.7	14.4	1	A
Aroclor 1254	160		ug/kg	95.7	10.5	1	B
Aroclor 1260	ND		ug/kg	95.7	17.7	1	A
Aroclor 1262	ND		ug/kg	95.7	12.2	1	A
Aroclor 1268	ND		ug/kg	95.7	9.92	1	A
PCBs, Total	303		ug/kg	95.7	8.50	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 05/19/23 20:09
Analyst: RMP
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 05/18/23 15:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	98.1	8.71	1	A
Aroclor 1221	ND		ug/kg	98.1	9.83	1	A
Aroclor 1232	ND		ug/kg	98.1	20.8	1	A
Aroclor 1242	ND		ug/kg	98.1	13.2	1	A
Aroclor 1248	23.8	J	ug/kg	98.1	14.7	1	B
Aroclor 1254	28.7	J	ug/kg	98.1	10.7	1	B
Aroclor 1260	26.3	J	ug/kg	98.1	18.1	1	B
Aroclor 1262	ND		ug/kg	98.1	12.4	1	A
Aroclor 1268	ND		ug/kg	98.1	10.2	1	A
PCBs, Total	78.8	J	ug/kg	98.1	8.71	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8082A
Analytical Date: 05/19/23 20:17
Analyst: RMP
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/18/23 15:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	97.2	8.63	1	A
Aroclor 1221	ND		ug/kg	97.2	9.74	1	A
Aroclor 1232	ND		ug/kg	97.2	20.6	1	A
Aroclor 1242	ND		ug/kg	97.2	13.1	1	A
Aroclor 1248	205		ug/kg	97.2	14.6	1	B
Aroclor 1254	ND		ug/kg	97.2	10.6	1	A
Aroclor 1260	ND		ug/kg	97.2	18.0	1	A
Aroclor 1262	ND		ug/kg	97.2	12.3	1	A
Aroclor 1268	ND		ug/kg	97.2	10.1	1	A
PCBs, Total	205		ug/kg	97.2	8.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/30/23 10:12
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 05/28/23 08:18
Cleanup Method: EPA 3665A
Cleanup Date: 05/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/17/23 23:47
Analyst: JM

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/17/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 10-11 Batch: WG1779025-1						
Aroclor 1016	ND		ug/kg	85.9	7.63	A
Aroclor 1221	ND		ug/kg	85.9	8.61	A
Aroclor 1232	ND		ug/kg	85.9	18.2	A
Aroclor 1242	ND		ug/kg	85.9	11.6	A
Aroclor 1248	ND		ug/kg	85.9	12.9	A
Aroclor 1254	ND		ug/kg	85.9	9.40	A
Aroclor 1260	ND		ug/kg	85.9	15.9	A
Aroclor 1262	ND		ug/kg	85.9	10.9	A
Aroclor 1268	ND		ug/kg	85.9	8.90	A
PCBs, Total	ND		ug/kg	85.9	7.63	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	43		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/19/23 19:37
Analyst: RMP

Extraction Method: EPA 3540C
Extraction Date: 05/18/23 15:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 17-19 Batch: WG1780635-1						
Aroclor 1016	ND		ug/kg	87.0	7.72	A
Aroclor 1221	ND		ug/kg	87.0	8.71	A
Aroclor 1232	ND		ug/kg	87.0	18.4	A
Aroclor 1242	ND		ug/kg	87.0	11.7	A
Aroclor 1248	ND		ug/kg	87.0	13.0	A
Aroclor 1254	ND		ug/kg	87.0	9.51	A
Aroclor 1260	ND		ug/kg	87.0	16.1	A
Aroclor 1262	ND		ug/kg	87.0	11.0	A
Aroclor 1268	ND		ug/kg	87.0	9.01	A
PCBs, Total	ND		ug/kg	87.0	7.72	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/22/23 20:00
Analyst: JM

Extraction Method: EPA 3540C
Extraction Date: 05/21/23 12:50
Cleanup Method: EPA 3665A
Cleanup Date: 05/22/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/22/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 12 Batch: WG1781564-1						
Aroclor 1016	ND		ug/kg	89.4	7.94	A
Aroclor 1221	ND		ug/kg	89.4	8.96	A
Aroclor 1232	ND		ug/kg	89.4	19.0	A
Aroclor 1242	ND		ug/kg	89.4	12.0	A
Aroclor 1248	ND		ug/kg	89.4	13.4	A
Aroclor 1254	ND		ug/kg	89.4	9.78	A
Aroclor 1260	ND		ug/kg	89.4	16.5	A
Aroclor 1262	ND		ug/kg	89.4	11.4	A
Aroclor 1268	ND		ug/kg	89.4	9.27	A
PCBs, Total	ND		ug/kg	89.4	7.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/24/23 11:33
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/23/23 04:54
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1782096-1						
Aroclor 1016	ND		ug/kg	45.5	4.04	A
Aroclor 1221	ND		ug/kg	45.5	4.56	A
Aroclor 1232	ND		ug/kg	45.5	9.65	A
Aroclor 1242	ND		ug/kg	45.5	6.14	A
Aroclor 1248	ND		ug/kg	45.5	6.83	A
Aroclor 1254	ND		ug/kg	45.5	4.98	A
Aroclor 1260	ND		ug/kg	45.5	8.42	A
Aroclor 1262	ND		ug/kg	45.5	5.78	A
Aroclor 1268	ND		ug/kg	45.5	4.72	A
PCBs, Total	ND		ug/kg	45.5	4.04	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/25/23 13:26
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/24/23 15:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03-08 Batch: WG1782963-1						
Aroclor 1016	ND		ug/kg	48.6	4.32	A
Aroclor 1221	ND		ug/kg	48.6	4.87	A
Aroclor 1232	ND		ug/kg	48.6	10.3	A
Aroclor 1242	ND		ug/kg	48.6	6.56	A
Aroclor 1248	ND		ug/kg	48.6	7.30	A
Aroclor 1254	ND		ug/kg	48.6	5.32	A
Aroclor 1260	ND		ug/kg	48.6	8.99	A
Aroclor 1262	ND		ug/kg	48.6	6.18	A
Aroclor 1268	ND		ug/kg	48.6	5.04	A
PCBs, Total	ND		ug/kg	48.6	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/26/23 08:41
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/25/23 18:23
Cleanup Method: EPA 3665A
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13-16 Batch: WG1783581-1						
Aroclor 1016	ND		ug/kg	48.9	4.34	A
Aroclor 1221	ND		ug/kg	48.9	4.90	A
Aroclor 1232	ND		ug/kg	48.9	10.4	A
Aroclor 1242	ND		ug/kg	48.9	6.59	A
Aroclor 1248	ND		ug/kg	48.9	7.33	A
Aroclor 1254	ND		ug/kg	48.9	5.35	A
Aroclor 1260	ND		ug/kg	48.9	9.03	A
Aroclor 1262	ND		ug/kg	48.9	6.21	A
Aroclor 1268	ND		ug/kg	48.9	5.06	A
PCBs, Total	ND		ug/kg	48.9	4.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/28/23 10:33
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 05/27/23 02:17
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09 Batch: WG1784169-1						
Aroclor 1016	ND		ug/kg	47.2	4.19	A
Aroclor 1221	ND		ug/kg	47.2	4.73	A
Aroclor 1232	ND		ug/kg	47.2	10.0	A
Aroclor 1242	ND		ug/kg	47.2	6.36	A
Aroclor 1248	ND		ug/kg	47.2	7.08	A
Aroclor 1254	ND		ug/kg	47.2	5.16	A
Aroclor 1260	ND		ug/kg	47.2	8.72	A
Aroclor 1262	ND		ug/kg	47.2	5.99	A
Aroclor 1268	ND		ug/kg	47.2	4.89	A
PCBs, Total	ND		ug/kg	47.2	4.19	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/30/23 08:15
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 05/28/23 08:17
Cleanup Method: EPA 3665A
Cleanup Date: 05/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 21 Batch: WG1784445-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 10-11 Batch: WG1779025-2 WG1779025-3									
Aroclor 1016	73		73		40-140	0		50	A
Aroclor 1260	73		72		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	A
Decachlorobiphenyl	74		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		72		30-150	B
Decachlorobiphenyl	74		74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 17-19 Batch: WG1780635-2 WG1780635-3									
Aroclor 1016	63		61		40-140	3		50	A
Aroclor 1260	60		58		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		65		30-150	A
Decachlorobiphenyl	66		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		67		30-150	B
Decachlorobiphenyl	68		66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 12 Batch: WG1781564-2 WG1781564-3									
Aroclor 1016	69		70		40-140	1		50	A
Aroclor 1260	62		63		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		75		30-150	A
Decachlorobiphenyl	66		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		77		30-150	B
Decachlorobiphenyl	76		75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1782096-2 WG1782096-3									
Aroclor 1016	78		81		40-140	4		50	A
Aroclor 1260	76		79		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		90		30-150	A
Decachlorobiphenyl	92		100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		95		30-150	B
Decachlorobiphenyl	89		98		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-08 Batch: WG1782963-2 WG1782963-3									
Aroclor 1016	76		66		40-140	14		50	A
Aroclor 1260	63		63		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		66		30-150	A
Decachlorobiphenyl	65		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		69		30-150	B
Decachlorobiphenyl	60		61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13-16 Batch: WG1783581-2 WG1783581-3									
Aroclor 1016	70		73		40-140	4		50	A
Aroclor 1260	56		61		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	A
Decachlorobiphenyl	56		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	B
Decachlorobiphenyl	67		71		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 09 Batch: WG1784169-2 WG1784169-3									
Aroclor 1016	79		81		40-140	3		50	A
Aroclor 1260	68		73		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		78		30-150	A
Decachlorobiphenyl	60		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		81		30-150	B
Decachlorobiphenyl	61		66		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 21 Batch: WG1784445-2 WG1784445-3									
Aroclor 1016	69		77		40-140	10		50	A
Aroclor 1260	71		80		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		66		30-150	A
Decachlorobiphenyl	72		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		59		30-150	B
Decachlorobiphenyl	65		72		30-150	B

PESTICIDES

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/24/23 15:47
Analyst: AR
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/23/23 04:46
Cleanup Method: EPA 3620B
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.805	0.360	1	A
Alpha-BHC	ND		ug/kg	0.805	0.229	1	A
Beta-BHC	ND		ug/kg	1.93	0.733	1	A
Heptachlor	ND		ug/kg	0.966	0.433	1	A
Aldrin	ND		ug/kg	1.93	0.680	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.09	1	A
Endrin	ND		ug/kg	0.805	0.330	1	A
Endrin aldehyde	ND		ug/kg	2.42	0.845	1	A
Endrin ketone	ND		ug/kg	1.93	0.498	1	A
Dieldrin	ND		ug/kg	1.21	0.604	1	A
4,4'-DDE	ND		ug/kg	1.93	0.447	1	A
4,4'-DDD	ND		ug/kg	1.93	0.689	1	A
4,4'-DDT	ND		ug/kg	1.93	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.646	1	A
Endosulfan sulfate	ND		ug/kg	0.805	0.383	1	A
Methoxychlor	ND		ug/kg	3.62	1.13	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	ND		ug/kg	2.42	0.673	1	A
trans-Chlordane	ND		ug/kg	2.42	0.638	1	A
Chlordane	ND		ug/kg	16.1	6.40	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/24/23 16:00
Analyst: AR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/23/23 04:46
Cleanup Method: EPA 3620B
Cleanup Date: 05/24/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.726	0.324	1	A
Alpha-BHC	ND		ug/kg	0.726	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.871	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.613	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.980	1	A
Endrin	ND		ug/kg	0.726	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	3.72	IP	ug/kg	1.74	0.403	1	A
4,4'-DDD	0.919	JIP	ug/kg	1.74	0.621	1	B
4,4'-DDT	19.4		ug/kg	1.74	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.726	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.02	1	A
Toxaphene	ND		ug/kg	32.6	9.14	1	A
cis-Chlordane	2.58	IP	ug/kg	2.18	0.607	1	A
trans-Chlordane	2.72		ug/kg	2.18	0.575	1	B
Chlordane	ND		ug/kg	14.5	5.77	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/26/23 01:43
Analyst: AAR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.77	0.408	1	A
4,4'-DDD	ND		ug/kg	1.77	0.630	1	A
4,4'-DDT	ND		ug/kg	1.77	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.417	1	A
Endosulfan II	ND		ug/kg	1.77	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.27	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	ND		ug/kg	2.21	0.583	1	A
Chlordane	ND		ug/kg	14.7	5.85	1	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/26/23 01:55
Analyst: AAR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.729	0.326	1	A
Alpha-BHC	ND		ug/kg	0.729	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.875	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1	A
Endrin	ND		ug/kg	0.729	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.766	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.09	0.547	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	ND		ug/kg	1.75	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.585	1	A
Endosulfan sulfate	ND		ug/kg	0.729	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.19	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.6	5.80	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/26/23 02:06
Analyst: AAR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	1.75	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.611	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.6	5.81	1	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/26/23 02:17
Analyst: AAR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.349	1	A
Lindane	ND		ug/kg	0.742	0.332	1	A
Alpha-BHC	ND		ug/kg	0.742	0.211	1	A
Beta-BHC	ND		ug/kg	1.78	0.675	1	A
Heptachlor	ND		ug/kg	0.891	0.399	1	A
Aldrin	ND		ug/kg	1.78	0.627	1	A
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1	A
Endrin	ND		ug/kg	0.742	0.304	1	A
Endrin aldehyde	ND		ug/kg	2.23	0.779	1	A
Endrin ketone	ND		ug/kg	1.78	0.459	1	A
Dieldrin	ND		ug/kg	1.11	0.557	1	A
4,4'-DDE	ND		ug/kg	1.78	0.412	1	A
4,4'-DDD	ND		ug/kg	1.78	0.635	1	A
4,4'-DDT	ND		ug/kg	1.78	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.421	1	A
Endosulfan II	ND		ug/kg	1.78	0.595	1	A
Endosulfan sulfate	ND		ug/kg	0.742	0.353	1	A
Methoxychlor	ND		ug/kg	3.34	1.04	1	A
Toxaphene	ND		ug/kg	33.4	9.35	1	A
cis-Chlordane	ND		ug/kg	2.23	0.620	1	A
trans-Chlordane	ND		ug/kg	2.23	0.588	1	A
Chlordane	ND		ug/kg	14.8	5.90	1	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/26/23 02:28
Analyst: AAR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.766	0.342	1	A
Alpha-BHC	ND		ug/kg	0.766	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.697	1	A
Heptachlor	ND		ug/kg	0.919	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.647	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.03	1	A
Endrin	ND		ug/kg	0.766	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.804	1	A
Endrin ketone	ND		ug/kg	1.84	0.473	1	A
Dieldrin	ND		ug/kg	1.15	0.574	1	A
4,4'-DDE	ND		ug/kg	1.84	0.425	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	1.84	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	ND		ug/kg	1.84	0.614	1	A
Endosulfan sulfate	ND		ug/kg	0.766	0.364	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.65	1	A
cis-Chlordane	ND		ug/kg	2.30	0.640	1	A
trans-Chlordane	ND		ug/kg	2.30	0.606	1	A
Chlordane	ND		ug/kg	15.3	6.09	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/26/23 02:40
Analyst: AAR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.755	0.337	1	A
Alpha-BHC	ND		ug/kg	0.755	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.687	1	A
Heptachlor	ND		ug/kg	0.906	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.755	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.792	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	1.81	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.605	1	A
Endosulfan sulfate	ND		ug/kg	0.755	0.359	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.51	1	A
cis-Chlordane	ND		ug/kg	2.26	0.631	1	A
trans-Chlordane	ND		ug/kg	2.26	0.598	1	A
Chlordane	ND		ug/kg	15.1	6.00	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY

Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/27/23 12:17
Analyst: AAR
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 13:36
Cleanup Method: EPA 3620B
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.192	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.813	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.573	1	A
Heptachlor epoxide	1.93	JIP	ug/kg	3.05	0.915	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.712	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.508	1	A
4,4'-DDE	2.61		ug/kg	1.63	0.376	1	B
4,4'-DDD	ND		ug/kg	1.63	0.580	1	A
4,4'-DDT	22.2	IP	ug/kg	1.63	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.384	1	A
Endosulfan II	ND		ug/kg	1.63	0.544	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.323	1	A
Methoxychlor	ND		ug/kg	3.05	0.949	1	A
Toxaphene	ND		ug/kg	30.5	8.54	1	A
cis-Chlordane	5.45	IP	ug/kg	2.03	0.567	1	B
trans-Chlordane	10.5		ug/kg	2.03	0.537	1	B
Chlordane	61.9		ug/kg	13.6	5.39	1	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY
Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10
Client ID: WOOD-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8081B
Analytical Date: 05/18/23 09:14
Analyst: AKM
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	4.23	0.829	1	A
Lindane	ND		ug/kg	1.76	0.788	1	A
Alpha-BHC	ND		ug/kg	1.76	0.501	1	A
Beta-BHC	ND		ug/kg	4.23	1.60	1	A
Heptachlor	ND		ug/kg	2.12	0.948	1	A
Aldrin	ND		ug/kg	4.23	1.49	1	A
Heptachlor epoxide	ND		ug/kg	7.93	2.38	1	A
Endrin	ND		ug/kg	1.76	0.723	1	A
Endrin aldehyde	ND		ug/kg	5.29	1.85	1	A
Endrin ketone	ND		ug/kg	4.23	1.09	1	A
Dieldrin	ND		ug/kg	2.64	1.32	1	A
4,4'-DDE	ND		ug/kg	4.23	0.978	1	A
4,4'-DDD	ND		ug/kg	4.23	1.51	1	A
4,4'-DDT	ND		ug/kg	4.23	3.40	1	A
Endosulfan I	ND		ug/kg	4.23	1.00	1	A
Endosulfan II	ND		ug/kg	4.23	1.41	1	A
Endosulfan sulfate	ND		ug/kg	1.76	0.839	1	A
Methoxychlor	ND		ug/kg	7.93	2.47	1	A
Toxaphene	ND		ug/kg	79.3	22.2	1	A
cis-Chlordane	ND		ug/kg	5.29	1.47	1	A
trans-Chlordane	ND		ug/kg	5.29	1.40	1	A
Chlordane	ND		ug/kg	35.3	14.0	1	A

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10 Date Collected: 05/12/23 09:30

Client ID: WOOD-1 Date Received: 05/12/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	**23**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8081B
Analytical Date: 05/18/23 09:26
Analyst: AKM
Percent Solids: 96%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	4.69	0.918	1	A
Lindane	ND		ug/kg	1.95	0.873	1	A
Alpha-BHC	ND		ug/kg	1.95	0.555	1	A
Beta-BHC	ND		ug/kg	4.69	1.78	1	A
Heptachlor	ND		ug/kg	2.34	1.05	1	A
Aldrin	ND		ug/kg	4.69	1.65	1	A
Heptachlor epoxide	ND		ug/kg	8.79	2.64	1	A
Endrin	ND		ug/kg	1.95	0.801	1	A
Endrin aldehyde	ND		ug/kg	5.86	2.05	1	A
Endrin ketone	ND		ug/kg	4.69	1.21	1	A
Dieldrin	ND		ug/kg	2.93	1.46	1	A
4,4'-DDE	28.1		ug/kg	4.69	1.08	1	B
4,4'-DDD	ND		ug/kg	4.69	1.67	1	A
4,4'-DDT	50.4	IP	ug/kg	4.69	3.77	1	A
Endosulfan I	ND		ug/kg	4.69	1.11	1	A
Endosulfan II	ND		ug/kg	4.69	1.57	1	A
Endosulfan sulfate	ND		ug/kg	1.95	0.930	1	A
Methoxychlor	ND		ug/kg	8.79	2.74	1	A
Toxaphene	ND		ug/kg	87.9	24.6	1	A
cis-Chlordane	ND		ug/kg	5.86	1.63	1	A
trans-Chlordane	ND		ug/kg	5.86	1.55	1	A
Chlordane	ND		ug/kg	39.1	15.5	1	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY
Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8081B
Analytical Date: 05/18/23 09:39
Analyst: AKM
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	4.96	0.971	1	A
Lindane	ND		ug/kg	2.07	0.924	1	A
Alpha-BHC	ND		ug/kg	2.07	0.587	1	A
Beta-BHC	ND		ug/kg	4.96	1.88	1	A
Heptachlor	ND		ug/kg	2.48	1.11	1	A
Aldrin	ND		ug/kg	4.96	1.74	1	A
Heptachlor epoxide	ND		ug/kg	9.30	2.79	1	A
Endrin	ND		ug/kg	2.07	0.847	1	A
Endrin aldehyde	ND		ug/kg	6.20	2.17	1	A
Endrin ketone	ND		ug/kg	4.96	1.28	1	A
Dieldrin	ND		ug/kg	3.10	1.55	1	A
4,4'-DDE	ND		ug/kg	4.96	1.15	1	A
4,4'-DDD	ND		ug/kg	4.96	1.77	1	A
4,4'-DDT	ND		ug/kg	4.96	3.99	1	A
Endosulfan I	ND		ug/kg	4.96	1.17	1	A
Endosulfan II	ND		ug/kg	4.96	1.66	1	A
Endosulfan sulfate	ND		ug/kg	2.07	0.983	1	A
Methoxychlor	ND		ug/kg	9.30	2.89	1	A
Toxaphene	ND		ug/kg	93.0	26.0	1	A
cis-Chlordane	ND		ug/kg	6.20	1.73	1	A
trans-Chlordane	ND		ug/kg	6.20	1.64	1	A
Chlordane	ND		ug/kg	41.3	16.4	1	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	31		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	32		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/27/23 13:05
Analyst: AAR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.760	0.340	1	A
Alpha-BHC	ND		ug/kg	0.760	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.692	1	A
Heptachlor	ND		ug/kg	0.912	0.409	1	A
Aldrin	ND		ug/kg	1.82	0.642	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	ND		ug/kg	0.760	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.798	1	A
Endrin ketone	ND		ug/kg	1.82	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.570	1	A
4,4'-DDE	ND		ug/kg	1.82	0.422	1	A
4,4'-DDD	ND		ug/kg	1.82	0.651	1	A
4,4'-DDT	ND		ug/kg	1.82	1.47	1	A
Endosulfan I	ND		ug/kg	1.82	0.431	1	A
Endosulfan II	ND		ug/kg	1.82	0.610	1	A
Endosulfan sulfate	ND		ug/kg	0.760	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.58	1	A
cis-Chlordane	ND		ug/kg	2.28	0.636	1	A
trans-Chlordane	ND		ug/kg	2.28	0.602	1	A
Chlordane	ND		ug/kg	15.2	6.04	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

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

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/27/23 12:53
Analyst: AAR
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.04	0.399	1	A
Lindane	ND		ug/kg	0.848	0.379	1	A
Alpha-BHC	ND		ug/kg	0.848	0.241	1	A
Beta-BHC	ND		ug/kg	2.04	0.772	1	A
Heptachlor	ND		ug/kg	1.02	0.456	1	A
Aldrin	ND		ug/kg	2.04	0.717	1	A
Heptachlor epoxide	ND		ug/kg	3.82	1.14	1	A
Endrin	ND		ug/kg	0.848	0.348	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.891	1	A
Endrin ketone	ND		ug/kg	2.04	0.524	1	A
Dieldrin	ND		ug/kg	1.27	0.636	1	A
4,4'-DDE	ND		ug/kg	2.04	0.471	1	A
4,4'-DDD	ND		ug/kg	2.04	0.726	1	A
4,4'-DDT	ND		ug/kg	2.04	1.64	1	A
Endosulfan I	ND		ug/kg	2.04	0.481	1	A
Endosulfan II	ND		ug/kg	2.04	0.680	1	A
Endosulfan sulfate	ND		ug/kg	0.848	0.404	1	A
Methoxychlor	ND		ug/kg	3.82	1.19	1	A
Toxaphene	ND		ug/kg	38.2	10.7	1	A
cis-Chlordane	ND		ug/kg	2.54	0.709	1	A
trans-Chlordane	ND		ug/kg	2.54	0.672	1	A
Chlordane	ND		ug/kg	17.0	6.74	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/27/23 12:41
Analyst: AAR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.363	1	A
Lindane	ND		ug/kg	0.772	0.345	1	A
Alpha-BHC	ND		ug/kg	0.772	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.702	1	A
Heptachlor	ND		ug/kg	0.926	0.415	1	A
Aldrin	ND		ug/kg	1.85	0.652	1	A
Heptachlor epoxide	ND		ug/kg	3.47	1.04	1	A
Endrin	ND		ug/kg	0.772	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.810	1	A
Endrin ketone	ND		ug/kg	1.85	0.477	1	A
Dieldrin	ND		ug/kg	1.16	0.579	1	A
4,4'-DDE	ND		ug/kg	1.85	0.428	1	B
4,4'-DDD	ND		ug/kg	1.85	0.660	1	A
4,4'-DDT	ND		ug/kg	1.85	1.49	1	B
Endosulfan I	ND		ug/kg	1.85	0.437	1	A
Endosulfan II	ND		ug/kg	1.85	0.619	1	A
Endosulfan sulfate	ND		ug/kg	0.772	0.367	1	A
Methoxychlor	ND		ug/kg	3.47	1.08	1	A
Toxaphene	ND		ug/kg	34.7	9.72	1	A
cis-Chlordane	ND		ug/kg	2.31	0.645	1	A
trans-Chlordane	ND		ug/kg	2.31	0.611	1	A
Chlordane	ND		ug/kg	15.4	6.13	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/27/23 12:29
Analyst: AAR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/25/23 19:52
Cleanup Method: EPA 3620B
Cleanup Date: 05/27/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/27/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.365	1	A
Lindane	ND		ug/kg	0.776	0.347	1	A
Alpha-BHC	ND		ug/kg	0.776	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.706	1	A
Heptachlor	ND		ug/kg	0.931	0.417	1	A
Aldrin	ND		ug/kg	1.86	0.656	1	A
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	A
Endrin	ND		ug/kg	0.776	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.815	1	A
Endrin ketone	ND		ug/kg	1.86	0.479	1	A
Dieldrin	ND		ug/kg	1.16	0.582	1	A
4,4'-DDE	ND		ug/kg	1.86	0.431	1	A
4,4'-DDD	ND		ug/kg	1.86	0.664	1	A
4,4'-DDT	ND		ug/kg	1.86	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.622	1	A
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	A
Methoxychlor	ND		ug/kg	3.49	1.09	1	A
Toxaphene	ND		ug/kg	34.9	9.78	1	A
cis-Chlordane	ND		ug/kg	2.33	0.649	1	A
trans-Chlordane	ND		ug/kg	2.33	0.614	1	A
Chlordane	ND		ug/kg	15.5	6.17	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8081B
Analytical Date: 05/23/23 14:59
Analyst: EJL
Percent Solids: 97%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 11:10
Cleanup Method: EPA 3620B
Cleanup Date: 05/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	22.1	4.33	5	A
Lindane	ND		ug/kg	9.21	4.12	5	A
Alpha-BHC	ND		ug/kg	9.21	2.62	5	A
Beta-BHC	ND		ug/kg	22.1	8.38	5	A
Heptachlor	ND		ug/kg	11.0	4.96	5	A
Aldrin	ND		ug/kg	22.1	7.78	5	A
Heptachlor epoxide	ND		ug/kg	41.4	12.4	5	A
Endrin	ND		ug/kg	9.21	3.78	5	A
Endrin aldehyde	ND		ug/kg	27.6	9.67	5	A
Endrin ketone	ND		ug/kg	22.1	5.69	5	A
Dieldrin	ND		ug/kg	13.8	6.91	5	A
4,4'-DDE	ND		ug/kg	22.1	5.11	5	A
4,4'-DDD	ND		ug/kg	22.1	7.88	5	A
4,4'-DDT	ND	IP	ug/kg	22.1	17.8	5	A
Endosulfan I	ND		ug/kg	22.1	5.22	5	A
Endosulfan II	ND		ug/kg	22.1	7.39	5	A
Endosulfan sulfate	ND		ug/kg	9.21	4.38	5	A
Methoxychlor	ND		ug/kg	41.4	12.9	5	A
Toxaphene	ND		ug/kg	414	116.	5	A
cis-Chlordane	ND		ug/kg	27.6	7.70	5	A
trans-Chlordane	ND		ug/kg	27.6	7.30	5	A
Chlordane	ND		ug/kg	184	73.2	5	A

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17 D
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	123		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8081B
Analytical Date: 05/22/23 16:43
Analyst: EJL
Percent Solids: 93%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 11:10
Cleanup Method: EPA 3620B
Cleanup Date: 05/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	4.86	0.952	1	A
Lindane	ND		ug/kg	2.02	0.905	1	A
Alpha-BHC	ND		ug/kg	2.02	0.575	1	A
Beta-BHC	ND		ug/kg	4.86	1.84	1	A
Heptachlor	ND		ug/kg	2.43	1.09	1	A
Aldrin	ND		ug/kg	4.86	1.71	1	A
Heptachlor epoxide	ND		ug/kg	9.11	2.73	1	A
Endrin	ND		ug/kg	2.02	0.830	1	A
Endrin aldehyde	ND		ug/kg	6.07	2.12	1	A
Endrin ketone	ND		ug/kg	4.86	1.25	1	A
Dieldrin	ND		ug/kg	3.04	1.52	1	A
4,4'-DDE	6.06	P	ug/kg	4.86	1.12	1	A
4,4'-DDD	ND		ug/kg	4.86	1.73	1	A
4,4'-DDT	ND		ug/kg	4.86	3.91	1	A
Endosulfan I	ND		ug/kg	4.86	1.15	1	A
Endosulfan II	ND		ug/kg	4.86	1.62	1	A
Endosulfan sulfate	ND		ug/kg	2.02	0.964	1	A
Methoxychlor	ND		ug/kg	9.11	2.83	1	A
Toxaphene	ND		ug/kg	91.1	25.5	1	A
cis-Chlordane	ND		ug/kg	6.07	1.69	1	A
trans-Chlordane	ND		ug/kg	6.07	1.60	1	A
Chlordane	ND		ug/kg	40.5	16.1	1	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Analytical Method: 1,8081B
Analytical Date: 05/22/23 16:54
Analyst: EJL
Percent Solids: 95%

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 11:10
Cleanup Method: EPA 3620B
Cleanup Date: 05/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	4.32	0.846	1	A
Lindane	ND		ug/kg	1.80	0.805	1	A
Alpha-BHC	ND		ug/kg	1.80	0.511	1	A
Beta-BHC	ND		ug/kg	4.32	1.64	1	A
Heptachlor	ND		ug/kg	2.16	0.969	1	A
Aldrin	ND		ug/kg	4.32	1.52	1	A
Heptachlor epoxide	ND		ug/kg	8.10	2.43	1	A
Endrin	ND		ug/kg	1.80	0.738	1	A
Endrin aldehyde	ND		ug/kg	5.40	1.89	1	A
Endrin ketone	ND		ug/kg	4.32	1.11	1	A
Dieldrin	ND		ug/kg	2.70	1.35	1	A
4,4'-DDE	ND		ug/kg	4.32	0.999	1	A
4,4'-DDD	ND		ug/kg	4.32	1.54	1	A
4,4'-DDT	ND		ug/kg	4.32	3.48	1	A
Endosulfan I	ND		ug/kg	4.32	1.02	1	A
Endosulfan II	ND		ug/kg	4.32	1.44	1	A
Endosulfan sulfate	ND		ug/kg	1.80	0.857	1	A
Methoxychlor	ND		ug/kg	8.10	2.52	1	A
Toxaphene	ND		ug/kg	81.0	22.7	1	A
cis-Chlordane	ND		ug/kg	5.40	1.50	1	A
trans-Chlordane	ND		ug/kg	5.40	1.43	1	A
Chlordane	ND		ug/kg	36.0	14.3	1	A

Project Name: 127 12TH STREET **Lab Number:** L2326314

Project Number: 127 12TH STREET **Report Date:** 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19 Date Collected: 05/15/23 13:45

Client ID: CONCRETE-4 Date Received: 05/15/23

Sample Location: BKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY

Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/22/23 18:36
Analyst: AAR

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 19:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH STREET
Lab Number: L2326314
Project Number: 127 12TH STREET
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/18/23 08:36
Analyst: AKM

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10-12 Batch: WG1779028-1						
Delta-BHC	ND		ug/kg	4.64	0.909	A
Lindane	ND		ug/kg	1.93	0.865	A
Alpha-BHC	ND		ug/kg	1.93	0.549	A
Beta-BHC	ND		ug/kg	4.64	1.76	A
Heptachlor	ND		ug/kg	2.32	1.04	A
Aldrin	ND		ug/kg	4.64	1.63	A
Heptachlor epoxide	ND		ug/kg	8.70	2.61	A
Endrin	ND		ug/kg	1.93	0.793	A
Endrin aldehyde	ND		ug/kg	5.80	2.03	A
Endrin ketone	ND		ug/kg	4.64	1.20	A
Dieldrin	ND		ug/kg	2.90	1.45	A
4,4'-DDE	ND		ug/kg	4.64	1.07	A
4,4'-DDD	ND		ug/kg	4.64	1.66	A
4,4'-DDT	ND		ug/kg	4.64	3.73	A
Endosulfan I	ND		ug/kg	4.64	1.10	A
Endosulfan II	ND		ug/kg	4.64	1.55	A
Endosulfan sulfate	ND		ug/kg	1.93	0.921	A
Methoxychlor	ND		ug/kg	8.70	2.71	A
Toxaphene	ND		ug/kg	87.0	24.4	A
cis-Chlordane	ND		ug/kg	5.80	1.62	A
trans-Chlordane	ND		ug/kg	5.80	1.53	A
Chlordane	ND		ug/kg	38.7	15.4	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/18/23 08:36
Analyst: AKM

Extraction Method: EPA 3540C
Extraction Date: 05/15/23 11:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10-12 Batch: WG1779028-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/21/23 15:13
Analyst: EJL

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 11:10
Cleanup Method: EPA 3620B
Cleanup Date: 05/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 17-19 Batch: WG1781000-1						
Delta-BHC	ND		ug/kg	4.03	0.788	A
Lindane	ND		ug/kg	1.68	0.750	A
Alpha-BHC	ND		ug/kg	1.68	0.476	A
Beta-BHC	ND		ug/kg	4.03	1.53	A
Heptachlor	ND		ug/kg	2.01	0.903	A
Aldrin	ND		ug/kg	4.03	1.42	A
Heptachlor epoxide	ND		ug/kg	7.55	2.26	A
Endrin	ND		ug/kg	1.68	0.688	A
Endrin aldehyde	ND		ug/kg	5.03	1.76	A
Endrin ketone	ND		ug/kg	4.03	1.04	A
Dieldrin	ND		ug/kg	2.52	1.26	A
4,4'-DDE	ND		ug/kg	4.03	0.931	A
4,4'-DDD	ND		ug/kg	4.03	1.44	A
4,4'-DDT	ND		ug/kg	4.03	3.24	A
Endosulfan I	ND		ug/kg	4.03	0.951	A
Endosulfan II	ND		ug/kg	4.03	1.34	A
Endosulfan sulfate	ND		ug/kg	1.68	0.799	A
Methoxychlor	ND		ug/kg	7.55	2.35	A
Toxaphene	ND		ug/kg	75.5	21.1	A
cis-Chlordane	ND		ug/kg	5.03	1.40	A
trans-Chlordane	ND		ug/kg	5.03	1.33	A
Chlordane	ND		ug/kg	33.6	13.3	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/21/23 15:13
Analyst: EJL

Extraction Method: EPA 3540C
Extraction Date: 05/19/23 11:10
Cleanup Method: EPA 3620B
Cleanup Date: 05/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 17-19 Batch: WG1781000-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/21/23 11:22
Analyst: AAR

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 06:11

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 21 Batch: WG1781300-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/21/23 11:22
Analyst: AAR

Extraction Method: EPA 3510C
Extraction Date: 05/20/23 06:11

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 21 Batch: WG1781300-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/23/23 12:22
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 05/22/23 15:12
Cleanup Method: EPA 3620B
Cleanup Date: 05/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1781945-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/23/23 12:22
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 05/22/23 15:12
Cleanup Method: EPA 3620B
Cleanup Date: 05/23/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/23/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1781945-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/25/23 15:11
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-09 Batch: WG1782936-1						
Delta-BHC	ND		ug/kg	1.52	0.299	A
Lindane	ND		ug/kg	0.635	0.284	A
Alpha-BHC	ND		ug/kg	0.635	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.762	0.342	A
Aldrin	ND		ug/kg	1.52	0.537	A
Heptachlor epoxide	ND		ug/kg	2.86	0.858	A
Endrin	ND		ug/kg	0.635	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.667	A
Endrin ketone	ND		ug/kg	1.52	0.393	A
Dieldrin	ND		ug/kg	0.953	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.353	A
4,4'-DDD	ND		ug/kg	1.52	0.544	A
4,4'-DDT	ND		ug/kg	1.52	1.23	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.510	A
Endosulfan sulfate	ND		ug/kg	0.635	0.302	A
Methoxychlor	ND		ug/kg	2.86	0.889	A
Toxaphene	ND		ug/kg	28.6	8.00	A
cis-Chlordane	ND		ug/kg	1.90	0.531	A
trans-Chlordane	ND		ug/kg	1.90	0.503	A
Chlordane	ND		ug/kg	12.7	5.05	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/25/23 15:11
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 05/24/23 14:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/25/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/25/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-09 Batch: WG1782936-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	116		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/26/23 14:14
Analyst: AAR

Extraction Method: EPA 3546
Extraction Date: 05/25/23 15:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 13-16 Batch: WG1783507-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.641	0.287	A
Alpha-BHC	ND		ug/kg	0.641	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.770	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Heptachlor epoxide	ND		ug/kg	2.89	0.866	A
Endrin	ND		ug/kg	0.641	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.674	A
Endrin ketone	ND		ug/kg	1.54	0.396	A
Dieldrin	ND		ug/kg	0.962	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	1.54	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.514	A
Endosulfan sulfate	ND		ug/kg	0.641	0.305	A
Methoxychlor	ND		ug/kg	2.89	0.898	A
Toxaphene	ND		ug/kg	28.9	8.08	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.508	A
Chlordane	ND		ug/kg	12.8	5.10	A

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/26/23 14:14
Analyst: AAR

Extraction Method: EPA 3546
Extraction Date: 05/25/23 15:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/26/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/26/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 13-16 Batch: WG1783507-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	134		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	119		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10-12 Batch: WG1779028-2 WG1779028-3									
Delta-BHC	90		93		30-150	3		30	A
Lindane	91		97		30-150	6		30	A
Alpha-BHC	98		104		30-150	6		30	A
Beta-BHC	94		106		30-150	12		30	A
Heptachlor	96		102		30-150	6		30	A
Aldrin	90		96		30-150	6		30	A
Heptachlor epoxide	81		87		30-150	7		30	A
Endrin	90		97		30-150	7		30	A
Endrin aldehyde	56		56		30-150	0		30	A
Endrin ketone	71		72		30-150	1		30	A
Dieldrin	98		108		30-150	10		30	A
4,4'-DDE	95		102		30-150	7		30	A
4,4'-DDD	98		104		30-150	6		30	A
4,4'-DDT	56		67		30-150	18		30	A
Endosulfan I	88		95		30-150	8		30	A
Endosulfan II	90		93		30-150	3		30	A
Endosulfan sulfate	44		44		30-150	0		30	A
Methoxychlor	84		88		30-150	5		30	A
cis-Chlordane	83		90		30-150	8		30	A
trans-Chlordane	101		110		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10-12 Batch: WG1779028-2 WG1779028-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		84		30-150	A
Decachlorobiphenyl	64		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		86		30-150	B
Decachlorobiphenyl	57		62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 17-19 Batch: WG1781000-2 WG1781000-3									
Delta-BHC	86		87		30-150	1		30	A
Lindane	81		82		30-150	1		30	A
Alpha-BHC	89		90		30-150	1		30	A
Beta-BHC	78		83		30-150	6		30	A
Heptachlor	92		92		30-150	0		30	A
Aldrin	83		86		30-150	4		30	A
Heptachlor epoxide	73		75		30-150	3		30	A
Endrin	82		85		30-150	4		30	A
Endrin aldehyde	68		68		30-150	0		30	A
Endrin ketone	78		80		30-150	3		30	A
Dieldrin	89		92		30-150	3		30	A
4,4'-DDE	82		86		30-150	5		30	A
4,4'-DDD	89		92		30-150	3		30	A
4,4'-DDT	56		59		30-150	5		30	A
Endosulfan I	80		83		30-150	4		30	A
Endosulfan II	83		86		30-150	4		30	A
Endosulfan sulfate	66		67		30-150	2		30	A
Methoxychlor	82		85		30-150	4		30	A
cis-Chlordane	70		75		30-150	7		30	A
trans-Chlordane	96		99		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 17-19 Batch: WG1781000-2 WG1781000-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		77		30-150	A
Decachlorobiphenyl	62		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		76		30-150	B
Decachlorobiphenyl	47		52		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 21 Batch: WG1781300-2 WG1781300-3									
Delta-BHC	75		77		30-150	2		20	A
Lindane	82		85		30-150	3		20	A
Alpha-BHC	81		85		30-150	5		20	A
Beta-BHC	88		90		30-150	2		20	A
Heptachlor	93		97		30-150	5		20	A
Aldrin	85		90		30-150	6		20	A
Heptachlor epoxide	87		92		30-150	5		20	A
Endrin	87		91		30-150	4		20	A
Endrin aldehyde	78		80		30-150	2		20	A
Endrin ketone	95		98		30-150	3		20	A
Dieldrin	94		98		30-150	4		20	A
4,4'-DDE	90		93		30-150	3		20	A
4,4'-DDD	97		101		30-150	4		20	A
4,4'-DDT	117		114		30-150	3		20	A
Endosulfan I	89		89		30-150	1		20	A
Endosulfan II	90		92		30-150	3		20	A
Endosulfan sulfate	88		90		30-150	3		20	A
Methoxychlor	102		104		30-150	2		20	A
cis-Chlordane	86		91		30-150	6		20	A
trans-Chlordane	96		104		30-150	9		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 21 Batch: WG1781300-2 WG1781300-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		75		30-150	A
Decachlorobiphenyl	102		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		71		30-150	B
Decachlorobiphenyl	93		93		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1781945-2 WG1781945-3									
Delta-BHC	73		76		30-150	4		30	A
Lindane	68		73		30-150	7		30	A
Alpha-BHC	72		77		30-150	7		30	A
Beta-BHC	82		88		30-150	7		30	A
Heptachlor	72		76		30-150	5		30	A
Aldrin	69		73		30-150	6		30	A
Heptachlor epoxide	60		62		30-150	3		30	A
Endrin	66		71		30-150	7		30	A
Endrin aldehyde	65		64		30-150	2		30	A
Endrin ketone	72		75		30-150	4		30	A
Dieldrin	70		74		30-150	6		30	A
4,4'-DDE	64		68		30-150	6		30	A
4,4'-DDD	71		76		30-150	7		30	A
4,4'-DDT	75		79		30-150	5		30	A
Endosulfan I	66		70		30-150	6		30	A
Endosulfan II	68		72		30-150	6		30	A
Endosulfan sulfate	62		64		30-150	3		30	A
Methoxychlor	82		86		30-150	5		30	A
cis-Chlordane	70		75		30-150	7		30	A
trans-Chlordane	83		89		30-150	7		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1781945-2 WG1781945-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		67		30-150	A
Decachlorobiphenyl	76		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		71		30-150	B
Decachlorobiphenyl	87		89		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-09 Batch: WG1782936-2 WG1782936-3									
Delta-BHC	104		111		30-150	7		30	A
Lindane	88		95		30-150	8		30	A
Alpha-BHC	91		97		30-150	6		30	A
Beta-BHC	104		103		30-150	1		30	A
Heptachlor	91		103		30-150	12		30	A
Aldrin	95		102		30-150	7		30	A
Heptachlor epoxide	79		90		30-150	13		30	A
Endrin	94		102		30-150	8		30	A
Endrin aldehyde	93		96		30-150	3		30	A
Endrin ketone	106		110		30-150	4		30	A
Dieldrin	102		109		30-150	7		30	A
4,4'-DDE	98		105		30-150	7		30	A
4,4'-DDD	104		111		30-150	7		30	A
4,4'-DDT	101		109		30-150	8		30	A
Endosulfan I	92		99		30-150	7		30	A
Endosulfan II	99		103		30-150	4		30	A
Endosulfan sulfate	97		102		30-150	5		30	A
Methoxychlor	105		111		30-150	6		30	A
cis-Chlordane	94		104		30-150	10		30	A
trans-Chlordane	98		110		30-150	12		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-09 Batch: WG1782936-2 WG1782936-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		93		30-150	A
Decachlorobiphenyl	114		121		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		92		30-150	B
Decachlorobiphenyl	97		105		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 13-16 Batch: WG1783507-2 WG1783507-3									
Delta-BHC	121		131		30-150	8		30	A
Lindane	107		112		30-150	5		30	A
Alpha-BHC	111		114		30-150	3		30	A
Beta-BHC	115		120		30-150	4		30	A
Heptachlor	118		118		30-150	0		30	A
Aldrin	114		120		30-150	5		30	A
Heptachlor epoxide	97		105		30-150	8		30	A
Endrin	116		124		30-150	7		30	A
Endrin aldehyde	102		111		30-150	8		30	A
Endrin ketone	119		132		30-150	10		30	A
Dieldrin	120		131		30-150	9		30	A
4,4'-DDE	116		126		30-150	8		30	A
4,4'-DDD	122		134		30-150	9		30	A
4,4'-DDT	119		127		30-150	7		30	A
Endosulfan I	108		117		30-150	8		30	A
Endosulfan II	113		123		30-150	8		30	A
Endosulfan sulfate	113		122		30-150	8		30	A
Methoxychlor	123		136		30-150	10		30	A
cis-Chlordane	113		122		30-150	8		30	A
trans-Chlordane	116		126		30-150	8		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 13-16 Batch: WG1783507-2 WG1783507-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		95		30-150	A
Decachlorobiphenyl	136		**151**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		96		30-150	B
Decachlorobiphenyl	119		134		30-150	B

METALS

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8920		mg/kg	9.39	2.54	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.70	0.357	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Arsenic, Total	3.80		mg/kg	0.939	0.195	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Barium, Total	40.6		mg/kg	0.939	0.163	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.249	J	mg/kg	0.470	0.031	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.939	0.092	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Calcium, Total	647		mg/kg	9.39	3.29	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Chromium, Total	13.4		mg/kg	0.939	0.090	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Cobalt, Total	6.50		mg/kg	1.88	0.156	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Copper, Total	7.12		mg/kg	0.939	0.242	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Iron, Total	15200		mg/kg	4.70	0.848	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Lead, Total	7.66		mg/kg	4.70	0.252	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Magnesium, Total	1900		mg/kg	9.39	1.45	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Manganese, Total	435		mg/kg	0.939	0.149	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/26/23 13:16	05/27/23 14:50	EPA 7471B	1,7471B	DJR
Nickel, Total	10.9		mg/kg	2.35	0.227	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Potassium, Total	452		mg/kg	235	13.5	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.88	0.242	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.470	0.266	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Sodium, Total	148	J	mg/kg	188	2.96	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.88	0.296	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Vanadium, Total	16.3		mg/kg	0.939	0.191	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW
Zinc, Total	30.2		mg/kg	4.70	0.275	2	05/26/23 12:29	05/28/23 16:12	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4120		mg/kg	8.74	2.36	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Antimony, Total	0.602	J	mg/kg	4.37	0.332	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Arsenic, Total	5.40		mg/kg	0.874	0.182	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Barium, Total	347		mg/kg	0.874	0.152	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.122	J	mg/kg	0.437	0.029	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.561	J	mg/kg	0.874	0.086	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Calcium, Total	12300		mg/kg	8.74	3.06	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Chromium, Total	16.4		mg/kg	0.874	0.084	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Cobalt, Total	9.72		mg/kg	1.75	0.145	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Copper, Total	113		mg/kg	0.874	0.226	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Iron, Total	11100		mg/kg	4.37	0.790	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Lead, Total	431		mg/kg	4.37	0.234	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Magnesium, Total	10400		mg/kg	8.74	1.35	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Manganese, Total	253		mg/kg	0.874	0.139	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Mercury, Total	0.372		mg/kg	0.071	0.046	1	05/26/23 13:16	05/27/23 15:03	EPA 7471B	1,7471B	DJR
Nickel, Total	115		mg/kg	2.19	0.212	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Potassium, Total	860		mg/kg	219	12.6	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Selenium, Total	0.292	J	mg/kg	1.75	0.226	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.437	0.247	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Sodium, Total	212		mg/kg	175	2.75	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.75	0.275	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Vanadium, Total	17.2		mg/kg	0.874	0.178	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW
Zinc, Total	306		mg/kg	4.37	0.256	2	05/26/23 12:29	05/28/23 15:58	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6020		mg/kg	8.50	2.30	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.25	0.323	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.03		mg/kg	0.850	0.177	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Barium, Total	29.5		mg/kg	0.850	0.148	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.140	J	mg/kg	0.425	0.028	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Cadmium, Total	1.27		mg/kg	0.850	0.083	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Calcium, Total	18800		mg/kg	8.50	2.98	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Chromium, Total	83.8		mg/kg	0.850	0.082	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Cobalt, Total	5.18		mg/kg	1.70	0.141	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Copper, Total	9.83		mg/kg	0.850	0.219	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Iron, Total	9490		mg/kg	4.25	0.768	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Lead, Total	357		mg/kg	4.25	0.228	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Magnesium, Total	2650		mg/kg	8.50	1.31	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Manganese, Total	219		mg/kg	0.850	0.135	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Mercury, Total	0.063	J	mg/kg	0.071	0.046	1	05/26/23 13:16	05/27/23 15:07	EPA 7471B	1,7471B	DJR
Nickel, Total	10.7		mg/kg	2.12	0.206	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Potassium, Total	587		mg/kg	212	12.2	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Selenium, Total	0.520	J	mg/kg	1.70	0.219	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.425	0.241	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Sodium, Total	123	J	mg/kg	170	2.68	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.70	0.268	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Vanadium, Total	10.9		mg/kg	0.850	0.173	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW
Zinc, Total	583		mg/kg	4.25	0.249	2	05/26/23 12:29	05/28/23 16:03	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6780		mg/kg	8.45	2.28	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Antimony, Total	0.862	J	mg/kg	4.22	0.321	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Arsenic, Total	10.0		mg/kg	0.845	0.176	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Barium, Total	41.8		mg/kg	0.845	0.147	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.218	J	mg/kg	0.422	0.028	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.389	J	mg/kg	0.845	0.083	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Calcium, Total	7480		mg/kg	8.45	2.96	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Chromium, Total	13.1		mg/kg	0.845	0.081	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Cobalt, Total	4.91		mg/kg	1.69	0.140	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Copper, Total	74.1		mg/kg	0.845	0.218	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Iron, Total	14200		mg/kg	4.22	0.763	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Lead, Total	956		mg/kg	4.22	0.226	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Magnesium, Total	2940		mg/kg	8.45	1.30	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Manganese, Total	200		mg/kg	0.845	0.134	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Mercury, Total	0.395		mg/kg	0.079	0.051	1	05/26/23 13:16	05/27/23 15:17	EPA 7471B	1,7471B	DJR
Nickel, Total	13.5		mg/kg	2.11	0.204	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Potassium, Total	524		mg/kg	211	12.2	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Selenium, Total	1.46	J	mg/kg	1.69	0.218	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.422	0.239	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Sodium, Total	113	J	mg/kg	169	2.66	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.69	0.266	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Vanadium, Total	13.6		mg/kg	0.845	0.172	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW
Zinc, Total	274		mg/kg	4.22	0.248	2	05/26/23 12:29	05/28/23 16:07	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6790		mg/kg	8.84	2.39	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.42	0.336	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Arsenic, Total	2.37		mg/kg	0.884	0.184	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Barium, Total	39.0		mg/kg	0.884	0.154	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.245	J	mg/kg	0.442	0.029	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.091	J	mg/kg	0.884	0.087	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Calcium, Total	1460		mg/kg	8.84	3.09	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Chromium, Total	9.66		mg/kg	0.884	0.085	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Cobalt, Total	5.08		mg/kg	1.77	0.147	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Copper, Total	7.56		mg/kg	0.884	0.228	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Iron, Total	10500		mg/kg	4.42	0.798	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Lead, Total	153		mg/kg	4.42	0.237	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Magnesium, Total	1610		mg/kg	8.84	1.36	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Manganese, Total	287		mg/kg	0.884	0.140	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.074	0.048	1	05/26/23 13:16	05/27/23 15:20	EPA 7471B	1,7471B	DJR
Nickel, Total	9.20		mg/kg	2.21	0.214	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Potassium, Total	561		mg/kg	221	12.7	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.77	0.228	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.442	0.250	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Sodium, Total	70.5	J	mg/kg	177	2.78	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.77	0.278	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Vanadium, Total	12.2		mg/kg	0.884	0.179	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW
Zinc, Total	47.0		mg/kg	4.42	0.259	2	05/26/23 12:29	05/28/23 16:45	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1300		mg/kg	8.71	2.35	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.35	0.331	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Arsenic, Total	39.2		mg/kg	0.871	0.181	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Barium, Total	49.6		mg/kg	0.871	0.152	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.435	0.029	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.152	J	mg/kg	0.871	0.085	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Calcium, Total	5560		mg/kg	8.71	3.05	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Chromium, Total	40.8		mg/kg	0.871	0.084	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Cobalt, Total	0.956	J	mg/kg	1.74	0.144	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Copper, Total	103		mg/kg	0.871	0.225	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Iron, Total	16300		mg/kg	4.35	0.786	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Lead, Total	230		mg/kg	4.35	0.233	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Magnesium, Total	742		mg/kg	8.71	1.34	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Manganese, Total	42.5		mg/kg	0.871	0.138	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Mercury, Total	0.528		mg/kg	0.083	0.054	1	05/26/23 13:16	05/27/23 15:23	EPA 7471B	1,7471B	DJR
Nickel, Total	1.71	J	mg/kg	2.18	0.211	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Potassium, Total	2810		mg/kg	218	12.5	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Selenium, Total	1.07	J	mg/kg	1.74	0.225	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.435	0.246	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Sodium, Total	365		mg/kg	174	2.74	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Thallium, Total	0.315	J	mg/kg	1.74	0.274	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Vanadium, Total	11.9		mg/kg	0.871	0.177	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW
Zinc, Total	29.7		mg/kg	4.35	0.255	2	05/26/23 12:29	05/28/23 16:50	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	239		mg/kg	9.01	2.43	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Antimony, Total	14.7		mg/kg	4.50	0.342	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.67		mg/kg	0.901	0.187	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Barium, Total	70.2		mg/kg	0.901	0.157	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.450	0.030	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.901	0.088	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Calcium, Total	989		mg/kg	9.01	3.15	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Chromium, Total	0.969		mg/kg	0.901	0.087	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Cobalt, Total	0.765	J	mg/kg	1.80	0.150	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Copper, Total	2.29		mg/kg	0.901	0.232	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Iron, Total	1220		mg/kg	4.50	0.814	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Lead, Total	45.8		mg/kg	4.50	0.241	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Magnesium, Total	63.8		mg/kg	9.01	1.39	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Manganese, Total	3.08		mg/kg	0.901	0.143	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Mercury, Total	0.136		mg/kg	0.086	0.056	1	05/26/23 13:16	05/27/23 15:27	EPA 7471B	1,7471B	DJR
Nickel, Total	1.74	J	mg/kg	2.25	0.218	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Potassium, Total	135	J	mg/kg	225	13.0	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.80	0.232	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.450	0.255	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Sodium, Total	49.6	J	mg/kg	180	2.84	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.80	0.284	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Vanadium, Total	1.04		mg/kg	0.901	0.183	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW
Zinc, Total	1.91	J	mg/kg	4.50	0.264	2	05/26/23 12:29	05/28/23 16:54	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	429		mg/kg	9.23	2.49	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Antimony, Total	6.49		mg/kg	4.62	0.351	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Arsenic, Total	13.0		mg/kg	0.923	0.192	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Barium, Total	86.6		mg/kg	0.923	0.161	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.462	0.031	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.923	0.091	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Calcium, Total	6040		mg/kg	9.23	3.23	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Chromium, Total	0.812	J	mg/kg	0.923	0.089	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Cobalt, Total	0.660	J	mg/kg	1.85	0.153	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Copper, Total	19.0		mg/kg	0.923	0.238	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Iron, Total	514		mg/kg	4.62	0.834	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Lead, Total	74.7		mg/kg	4.62	0.247	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Magnesium, Total	79.5		mg/kg	9.23	1.42	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Manganese, Total	3.62		mg/kg	0.923	0.147	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Mercury, Total	0.890		mg/kg	0.077	0.050	1	05/26/23 13:16	05/27/23 15:30	EPA 7471B	1,7471B	DJR
Nickel, Total	1.38	J	mg/kg	2.31	0.223	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Potassium, Total	174	J	mg/kg	231	13.3	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Selenium, Total	0.612	J	mg/kg	1.85	0.238	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.462	0.261	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Sodium, Total	154	J	mg/kg	185	2.91	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.85	0.291	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Vanadium, Total	1.71		mg/kg	0.923	0.187	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW
Zinc, Total	14.8		mg/kg	4.62	0.270	2	05/26/23 12:29	05/28/23 16:59	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY
Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3250		mg/kg	8.20	2.22	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.10	0.312	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Arsenic, Total	7.26		mg/kg	0.820	0.171	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Barium, Total	73.5		mg/kg	0.820	0.143	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.501		mg/kg	0.410	0.027	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Cadmium, Total	1.60		mg/kg	0.820	0.080	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Calcium, Total	29400		mg/kg	8.20	2.87	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Chromium, Total	21.6		mg/kg	0.820	0.079	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Cobalt, Total	6.96		mg/kg	1.64	0.136	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Copper, Total	184		mg/kg	0.820	0.212	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Iron, Total	23400		mg/kg	4.10	0.741	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Lead, Total	334		mg/kg	4.10	0.220	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Magnesium, Total	2320		mg/kg	8.20	1.26	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Manganese, Total	231		mg/kg	0.820	0.130	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Mercury, Total	0.641		mg/kg	0.068	0.045	1	05/26/23 13:16	05/27/23 15:33	EPA 7471B	1,7471B	DJR
Nickel, Total	33.9		mg/kg	2.05	0.198	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Potassium, Total	571		mg/kg	205	11.8	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Selenium, Total	0.790	J	mg/kg	1.64	0.212	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Silver, Total	0.312	J	mg/kg	0.410	0.232	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Sodium, Total	269		mg/kg	164	2.58	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.64	0.258	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Vanadium, Total	13.1		mg/kg	0.820	0.166	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW
Zinc, Total	762		mg/kg	4.10	0.240	2	05/26/23 12:29	05/28/23 17:04	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10
Client ID: WOOD-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12800		mg/kg	7.84	2.12	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Antimony, Total	2.64	J	mg/kg	3.92	0.298	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Arsenic, Total	1.99		mg/kg	0.784	0.163	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Barium, Total	185		mg/kg	0.784	0.136	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.392	0.026	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Cadmium, Total	49.6		mg/kg	0.784	0.077	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Calcium, Total	5380		mg/kg	7.84	2.74	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Chromium, Total	156		mg/kg	0.784	0.075	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Cobalt, Total	29.4		mg/kg	1.57	0.130	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Copper, Total	26700		mg/kg	7.84	2.02	20	05/26/23 12:29	05/28/23 18:11	EPA 3050B	1,6010D	AMW
Iron, Total	11000		mg/kg	3.92	0.708	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Lead, Total	872		mg/kg	39.2	2.10	20	05/26/23 12:29	05/28/23 18:11	EPA 3050B	1,6010D	AMW
Magnesium, Total	841		mg/kg	7.84	1.21	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Manganese, Total	273		mg/kg	0.784	0.125	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Mercury, Total	0.794		mg/kg	0.068	0.045	1	05/26/23 13:16	05/27/23 15:37	EPA 7471B	1,7471B	DJR
Nickel, Total	70.1		mg/kg	1.96	0.190	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Potassium, Total	777		mg/kg	196	11.3	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Selenium, Total	1.25	J	mg/kg	1.57	0.202	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Silver, Total	2.41		mg/kg	0.392	0.222	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Sodium, Total	940		mg/kg	157	2.47	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.57	0.247	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Vanadium, Total	14.0		mg/kg	0.784	0.159	2	05/26/23 12:29	05/28/23 17:08	EPA 3050B	1,6010D	AMW
Zinc, Total	6350		mg/kg	39.2	2.30	20	05/26/23 12:29	05/28/23 18:11	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY
Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6630		mg/kg	7.94	2.14	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Antimony, Total	1.31	J	mg/kg	3.97	0.302	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Arsenic, Total	2.43		mg/kg	0.794	0.165	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Barium, Total	53.0		mg/kg	0.794	0.138	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.397	0.026	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Cadmium, Total	26.9		mg/kg	0.794	0.078	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Calcium, Total	6660		mg/kg	7.94	2.78	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Chromium, Total	83.0		mg/kg	0.794	0.076	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Cobalt, Total	129		mg/kg	1.59	0.132	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Copper, Total	18100		mg/kg	7.94	2.05	20	05/26/23 12:29	05/28/23 18:16	EPA 3050B	1,6010D	AMW
Iron, Total	15000		mg/kg	3.97	0.717	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Lead, Total	1040		mg/kg	39.7	2.13	20	05/26/23 12:29	05/28/23 18:16	EPA 3050B	1,6010D	AMW
Magnesium, Total	815		mg/kg	7.94	1.22	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Manganese, Total	190		mg/kg	0.794	0.126	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Mercury, Total	22.6		mg/kg	0.675	0.440	10	05/26/23 13:16	05/27/23 16:26	EPA 7471B	1,7471B	DJR
Nickel, Total	68.5		mg/kg	1.98	0.192	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Potassium, Total	1610		mg/kg	198	11.4	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Selenium, Total	0.606	J	mg/kg	1.59	0.205	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Silver, Total	4.41		mg/kg	0.397	0.225	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Sodium, Total	1840		mg/kg	159	2.50	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.59	0.250	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Vanadium, Total	9.04		mg/kg	0.794	0.161	2	05/26/23 12:29	05/28/23 17:13	EPA 3050B	1,6010D	AMW
Zinc, Total	4950		mg/kg	39.7	2.33	20	05/26/23 12:29	05/28/23 18:16	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY
Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4950		mg/kg	8.21	2.22	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.11	0.312	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.54		mg/kg	0.821	0.171	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Barium, Total	65.8		mg/kg	0.821	0.143	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.181	J	mg/kg	0.411	0.027	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.092	J	mg/kg	0.821	0.081	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Calcium, Total	97600		mg/kg	41.1	14.4	10	05/26/23 12:29	05/28/23 18:07	EPA 3050B	1,6010D	AMW
Chromium, Total	15.4		mg/kg	0.821	0.079	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Cobalt, Total	7.11		mg/kg	1.64	0.136	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Copper, Total	31.9		mg/kg	0.821	0.212	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Iron, Total	5260		mg/kg	4.11	0.742	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Lead, Total	7.89		mg/kg	4.11	0.220	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Magnesium, Total	32200		mg/kg	8.21	1.26	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Manganese, Total	93.2		mg/kg	0.821	0.130	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.070	0.045	1	05/26/23 13:16	05/27/23 15:46	EPA 7471B	1,7471B	DJR
Nickel, Total	11.6		mg/kg	2.05	0.199	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Potassium, Total	1200		mg/kg	205	11.8	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Selenium, Total	0.612	J	mg/kg	1.64	0.212	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.411	0.232	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Sodium, Total	269		mg/kg	164	2.59	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Thallium, Total	0.328	J	mg/kg	1.64	0.259	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Vanadium, Total	19.4		mg/kg	0.821	0.167	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW
Zinc, Total	24.0		mg/kg	4.11	0.241	2	05/26/23 12:29	05/28/23 17:18	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7310		mg/kg	9.52	2.57	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.76	0.362	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Arsenic, Total	3.32		mg/kg	0.952	0.198	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Barium, Total	32.8		mg/kg	0.952	0.166	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.220	J	mg/kg	0.476	0.031	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.952	0.093	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Calcium, Total	13100		mg/kg	9.52	3.33	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Chromium, Total	10.8		mg/kg	0.952	0.091	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Cobalt, Total	5.18		mg/kg	1.90	0.158	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Copper, Total	12.6		mg/kg	0.952	0.246	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Iron, Total	11900		mg/kg	4.76	0.860	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Lead, Total	46.6		mg/kg	4.76	0.255	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Magnesium, Total	6980		mg/kg	9.52	1.47	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Manganese, Total	279		mg/kg	0.952	0.151	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Mercury, Total	ND		mg/kg	0.076	0.050	1	05/26/23 13:16	05/27/23 15:49	EPA 7471B	1,7471B	DJR
Nickel, Total	16.0		mg/kg	2.38	0.230	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Potassium, Total	764		mg/kg	238	13.7	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.90	0.246	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.476	0.270	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Sodium, Total	135	J	mg/kg	190	3.00	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.90	0.300	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Vanadium, Total	13.5		mg/kg	0.952	0.193	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW
Zinc, Total	29.1		mg/kg	4.76	0.279	2	05/26/23 12:29	05/28/23 17:23	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7490		mg/kg	9.80	2.64	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.90	0.372	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.94		mg/kg	0.980	0.204	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Barium, Total	47.1		mg/kg	0.980	0.170	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.199	J	mg/kg	0.490	0.032	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.159	J	mg/kg	0.980	0.096	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Calcium, Total	17800		mg/kg	9.80	3.43	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Chromium, Total	12.5		mg/kg	0.980	0.094	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Cobalt, Total	5.77		mg/kg	1.96	0.163	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Copper, Total	17.5		mg/kg	0.980	0.253	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Iron, Total	12600		mg/kg	4.90	0.885	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Lead, Total	52.7		mg/kg	4.90	0.262	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Magnesium, Total	5430		mg/kg	9.80	1.51	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Manganese, Total	302		mg/kg	0.980	0.156	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Mercury, Total	0.118		mg/kg	0.086	0.056	1	05/26/23 13:16	05/27/23 15:59	EPA 7471B	1,7471B	DJR
Nickel, Total	15.0		mg/kg	2.45	0.237	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Potassium, Total	1090		mg/kg	245	14.1	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.96	0.253	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.490	0.277	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Sodium, Total	140	J	mg/kg	196	3.09	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.96	0.309	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Vanadium, Total	17.4		mg/kg	0.980	0.199	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW
Zinc, Total	48.8		mg/kg	4.90	0.287	2	05/26/23 12:29	05/28/23 17:27	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6690		mg/kg	9.32	2.52	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.66	0.354	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Arsenic, Total	5.07		mg/kg	0.932	0.194	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Barium, Total	39.6		mg/kg	0.932	0.162	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.147	J	mg/kg	0.466	0.031	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.120	J	mg/kg	0.932	0.091	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Calcium, Total	10700		mg/kg	9.32	3.26	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Chromium, Total	12.7		mg/kg	0.932	0.089	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Cobalt, Total	5.96		mg/kg	1.86	0.155	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Copper, Total	21.3		mg/kg	0.932	0.240	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Iron, Total	11900		mg/kg	4.66	0.841	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Lead, Total	43.6		mg/kg	4.66	0.250	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Magnesium, Total	6810		mg/kg	9.32	1.44	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Manganese, Total	266		mg/kg	0.932	0.148	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Mercury, Total	0.280		mg/kg	0.075	0.049	1	05/26/23 13:16	05/27/23 16:03	EPA 7471B	1,7471B	DJR
Nickel, Total	13.0		mg/kg	2.33	0.226	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Potassium, Total	995		mg/kg	233	13.4	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Selenium, Total	0.419	J	mg/kg	1.86	0.240	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.466	0.264	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Sodium, Total	132	J	mg/kg	186	2.94	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.86	0.294	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Vanadium, Total	18.1		mg/kg	0.932	0.189	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW
Zinc, Total	67.4		mg/kg	4.66	0.273	2	05/26/23 12:29	05/28/23 17:43	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY
Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6780		mg/kg	9.07	2.45	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.54	0.345	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Arsenic, Total	4.57		mg/kg	0.907	0.189	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Barium, Total	44.0		mg/kg	0.907	0.158	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Beryllium, Total	0.182	J	mg/kg	0.454	0.030	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.113	J	mg/kg	0.907	0.089	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Calcium, Total	12300		mg/kg	9.07	3.18	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Chromium, Total	12.3		mg/kg	0.907	0.087	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Cobalt, Total	6.09		mg/kg	1.81	0.151	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Copper, Total	14.1		mg/kg	0.907	0.234	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Iron, Total	11900		mg/kg	4.54	0.819	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Lead, Total	101		mg/kg	4.54	0.243	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Magnesium, Total	3550		mg/kg	9.07	1.40	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Manganese, Total	231		mg/kg	0.907	0.144	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Mercury, Total	0.630		mg/kg	0.081	0.053	1	05/26/23 13:16	05/27/23 16:06	EPA 7471B	1,7471B	DJR
Nickel, Total	12.8		mg/kg	2.27	0.220	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Potassium, Total	967		mg/kg	227	13.1	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Selenium, Total	ND		mg/kg	1.81	0.234	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.454	0.257	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Sodium, Total	129	J	mg/kg	181	2.86	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.81	0.286	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Vanadium, Total	17.2		mg/kg	0.907	0.184	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW
Zinc, Total	40.8		mg/kg	4.54	0.266	2	05/26/23 12:29	05/28/23 17:48	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17
Client ID: CONCRETE-2
Sample Location: BKLYN, NY
Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6220		mg/kg	7.87	2.12	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	3.94	0.299	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Arsenic, Total	3.29		mg/kg	0.787	0.164	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Barium, Total	44.1		mg/kg	0.787	0.137	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.394	0.026	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.937		mg/kg	0.787	0.077	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Calcium, Total	92600		mg/kg	39.4	13.8	10	05/26/23 12:29	05/28/23 18:20	EPA 3050B	1,6010D	AMW
Chromium, Total	25.4		mg/kg	0.787	0.076	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Cobalt, Total	4.18		mg/kg	1.57	0.131	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Copper, Total	1240		mg/kg	0.787	0.203	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Iron, Total	5040		mg/kg	3.94	0.711	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Lead, Total	75.6		mg/kg	3.94	0.211	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Magnesium, Total	4440		mg/kg	7.87	1.21	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Manganese, Total	115		mg/kg	0.787	0.125	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Mercury, Total	0.209		mg/kg	0.071	0.046	1	05/26/23 13:16	05/27/23 16:09	EPA 7471B	1,7471B	DJR
Nickel, Total	13.4		mg/kg	1.97	0.190	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Potassium, Total	1360		mg/kg	197	11.3	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Selenium, Total	0.473	J	mg/kg	1.57	0.203	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Silver, Total	0.300	J	mg/kg	0.394	0.223	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Sodium, Total	563		mg/kg	157	2.48	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.57	0.248	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Vanadium, Total	9.95		mg/kg	0.787	0.160	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW
Zinc, Total	333		mg/kg	3.94	0.231	2	05/26/23 12:29	05/28/23 17:52	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7550		mg/kg	8.16	2.20	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.08	0.310	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Arsenic, Total	2.02		mg/kg	0.816	0.170	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Barium, Total	44.7		mg/kg	0.816	0.142	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.408	0.027	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.816	0.080	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Calcium, Total	57900		mg/kg	8.16	2.86	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Chromium, Total	9.83		mg/kg	0.816	0.078	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Cobalt, Total	2.37		mg/kg	1.63	0.136	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Copper, Total	8.58		mg/kg	0.816	0.211	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Iron, Total	6050		mg/kg	4.08	0.737	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Lead, Total	5.41		mg/kg	4.08	0.219	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Magnesium, Total	2980		mg/kg	8.16	1.26	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Manganese, Total	173		mg/kg	0.816	0.130	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Mercury, Total	0.074		mg/kg	0.071	0.046	1	05/26/23 13:16	05/27/23 16:13	EPA 7471B	1,7471B	DJR
Nickel, Total	5.48		mg/kg	2.04	0.198	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Potassium, Total	528		mg/kg	204	11.8	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Selenium, Total	0.278	J	mg/kg	1.63	0.211	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.408	0.231	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Sodium, Total	210		mg/kg	163	2.57	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.63	0.257	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Vanadium, Total	8.73		mg/kg	0.816	0.166	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW
Zinc, Total	13.2		mg/kg	4.08	0.239	2	05/26/23 12:29	05/28/23 17:57	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY
Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6110		mg/kg	8.12	2.19	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Antimony, Total	ND		mg/kg	4.06	0.308	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Arsenic, Total	2.70		mg/kg	0.812	0.169	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Barium, Total	71.1		mg/kg	0.812	0.141	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.406	0.027	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Cadmium, Total	0.166	J	mg/kg	0.812	0.080	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Calcium, Total	52300		mg/kg	8.12	2.84	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Chromium, Total	8.78		mg/kg	0.812	0.078	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Cobalt, Total	3.26		mg/kg	1.62	0.135	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Copper, Total	110		mg/kg	0.812	0.209	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Iron, Total	6130		mg/kg	4.06	0.733	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Lead, Total	14.9		mg/kg	4.06	0.218	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Magnesium, Total	2880		mg/kg	8.12	1.25	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Manganese, Total	130		mg/kg	0.812	0.129	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Mercury, Total	0.065	J	mg/kg	0.078	0.051	1	05/26/23 13:16	05/27/23 16:16	EPA 7471B	1,7471B	DJR
Nickel, Total	8.45		mg/kg	2.03	0.196	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Potassium, Total	981		mg/kg	203	11.7	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Selenium, Total	0.696	J	mg/kg	1.62	0.209	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Silver, Total	ND		mg/kg	0.406	0.230	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Sodium, Total	645		mg/kg	162	2.56	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Thallium, Total	ND		mg/kg	1.62	0.256	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Vanadium, Total	9.20		mg/kg	0.812	0.165	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW
Zinc, Total	98.1		mg/kg	4.06	0.238	2	05/26/23 12:29	05/28/23 18:02	EPA 3050B	1,6010D	AMW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-21
Client ID: FB_SOIL
Sample Location: BKLYN, NY
Date Collected: 05/15/23 14:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Barium, Total	0.00052		mg/l	0.00050	0.00017	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/26/23 16:09	05/27/23 00:06	EPA 7470A	1,7470A	DMB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Sodium, Total	0.114		mg/l	0.100	0.0293	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/26/23 16:31	05/30/23 16:56	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21 Batch: WG1782965-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Sodium, Total	0.0384	J	mg/l	0.100	0.0293	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/26/23 16:31	05/30/23 14:31	1,6020B	EGW

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 21 Batch: WG1782969-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/26/23 16:09	05/26/23 23:43	1,7470A	DMB

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-19 Batch: WG1783346-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Barium, Total	ND		mg/kg	0.400	0.070	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Copper, Total	ND		mg/kg	0.400	0.103	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Iron, Total	ND		mg/kg	2.00	0.361	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Lead, Total	ND		mg/kg	2.00	0.107	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Potassium, Total	ND		mg/kg	100	5.76	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Silver, Total	ND		mg/kg	0.200	0.113	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/26/23 12:29	05/28/23 15:49	1,6010D	AMW

Prep Information

Digestion Method: EPA 3050B

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET
Lab Number: L2326314
Report Date: 06/02/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-19 Batch: WG1783347-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/26/23 13:16	05/27/23 14:43	1,7471B	DJR

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21 Batch: WG1782965-2								
Aluminum, Total	98		-		80-120	-		
Antimony, Total	86		-		80-120	-		
Arsenic, Total	97		-		80-120	-		
Barium, Total	98		-		80-120	-		
Beryllium, Total	101		-		80-120	-		
Cadmium, Total	101		-		80-120	-		
Calcium, Total	91		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Cobalt, Total	94		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	94		-		80-120	-		
Lead, Total	99		-		80-120	-		
Magnesium, Total	91		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	94		-		80-120	-		
Potassium, Total	93		-		80-120	-		
Selenium, Total	96		-		80-120	-		
Silver, Total	108		-		80-120	-		
Sodium, Total	98		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	96		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21 Batch: WG1782965-2					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 21 Batch: WG1782969-2					
Mercury, Total	92	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 Batch: WG1783346-2 SRM Lot Number: D119-540					
Aluminum, Total	66	-	48-152	-	
Antimony, Total	157	-	10-190	-	
Arsenic, Total	100	-	83-117	-	
Barium, Total	86	-	82-118	-	
Beryllium, Total	88	-	83-117	-	
Cadmium, Total	98	-	82-117	-	
Calcium, Total	86	-	81-118	-	
Chromium, Total	93	-	82-119	-	
Cobalt, Total	100	-	83-117	-	
Copper, Total	91	-	84-116	-	
Iron, Total	84	-	60-140	-	
Lead, Total	99	-	82-118	-	
Magnesium, Total	84	-	76-124	-	
Manganese, Total	88	-	82-118	-	
Nickel, Total	98	-	82-117	-	
Potassium, Total	80	-	70-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	93	-	80-120	-	
Sodium, Total	88	-	74-126	-	
Thallium, Total	101	-	81-119	-	
Vanadium, Total	91	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 Batch: WG1783346-2 SRM Lot Number: D119-540					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-19 Batch: WG1783347-2 SRM Lot Number: D119-540					
Mercury, Total	101	-	73-127	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1782965-3 QC Sample: L2328436-05 Client ID: MS Sample												
Aluminum, Total	ND	2	2.05	102		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.4436	89		-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.1205	100		-	-		75-125	-		20
Barium, Total	0.00062	2	1.943	97		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05125	102		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05387	102		-	-		75-125	-		20
Calcium, Total	ND	10	8.59	86		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1995	100		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4900	98		-	-		75-125	-		20
Copper, Total	ND	0.25	0.2532	101		-	-		75-125	-		20
Iron, Total	ND	1	0.947	95		-	-		75-125	-		20
Lead, Total	ND	0.53	0.5155	97		-	-		75-125	-		20
Magnesium, Total	ND	10	9.62	96		-	-		75-125	-		20
Manganese, Total	ND	0.5	0.5107	102		-	-		75-125	-		20
Nickel, Total	ND	0.5	0.4896	98		-	-		75-125	-		20
Potassium, Total	ND	10	9.58	96		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.126	105		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05376	108		-	-		75-125	-		20
Sodium, Total	0.435	10	10.7	103		-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1191	99		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4881	98		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1782965-3 QC Sample: L2328436-05 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5072	101	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1782969-3 QC Sample: L2328578-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00470	94	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783346-3 QC Sample: L2326314-01 Client ID: SB-1 (3-5)										
Aluminum, Total	8920	193	12400	**1800**	Q	-	-	75-125	-	20
Antimony, Total	ND	48.3	39.7	82		-	-	75-125	-	20
Arsenic, Total	3.80	11.6	15.4	100		-	-	75-125	-	20
Barium, Total	40.6	193	234	100		-	-	75-125	-	20
Beryllium, Total	0.249J	4.83	4.86	100		-	-	75-125	-	20
Cadmium, Total	ND	5.12	4.79	93		-	-	75-125	-	20
Calcium, Total	647	967	1770	116		-	-	75-125	-	20
Chromium, Total	13.4	19.3	33.0	101		-	-	75-125	-	20
Cobalt, Total	6.50	48.3	52.0	94		-	-	75-125	-	20
Copper, Total	7.12	24.2	31.1	99		-	-	75-125	-	20
Iron, Total	15200	96.7	18800	**3720**	Q	-	-	75-125	-	20
Lead, Total	7.66	51.2	55.4	93		-	-	75-125	-	20
Magnesium, Total	1900	967	3180	**132**	Q	-	-	75-125	-	20
Manganese, Total	435	48.3	1090	**1360**	Q	-	-	75-125	-	20
Nickel, Total	10.9	48.3	54.7	91		-	-	75-125	-	20
Potassium, Total	452	967	1540	112		-	-	75-125	-	20
Selenium, Total	ND	11.6	10.4	90		-	-	75-125	-	20
Silver, Total	ND	4.83	4.30	89		-	-	75-125	-	20
Sodium, Total	148J	967	1150	119		-	-	75-125	-	20
Thallium, Total	ND	11.6	9.67	83		-	-	75-125	-	20
Vanadium, Total	16.3	48.3	63.1	97		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783346-3 QC Sample: L2326314-01 Client ID: SB-1 (3-5)									
Zinc, Total	30.2	48.3	76.6	96	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783347-3 QC Sample: L2326314-01 Client ID: SB-1 (3-5)									
Mercury, Total	ND	1.88	1.88	100	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1782965-4 QC Sample: L2328436-05 Client ID: DUP Sample						
Aluminum, Total	ND	ND	mg/l	NC		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.00062	0.00032J	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	ND	ND	mg/l	NC		20
Manganese, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	0.435	0.219	mg/l	**66**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1782965-4 QC Sample: L2328436-05 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1782969-4 QC Sample: L2328578-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783346-4 QC Sample: L2326314-01 Client ID: SB-1 (3-5)					
Aluminum, Total	8920	10900	mg/kg	20	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	3.80	4.44	mg/kg	16	20
Barium, Total	40.6	45.2	mg/kg	11	20
Beryllium, Total	0.249J	0.298J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	647	752	mg/kg	15	20
Chromium, Total	13.4	16.2	mg/kg	19	20
Cobalt, Total	6.50	6.96	mg/kg	7	20
Copper, Total	7.12	8.32	mg/kg	16	20
Iron, Total	15200	18200	mg/kg	18	20
Lead, Total	7.66	8.09	mg/kg	5	20
Magnesium, Total	1900	2130	mg/kg	11	20
Manganese, Total	435	486	mg/kg	11	20
Nickel, Total	10.9	12.5	mg/kg	14	20
Potassium, Total	452	526	mg/kg	15	20
Selenium, Total	ND	0.238J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	148J	175J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783346-4 QC Sample: L2326314-01 Client ID: SB-1 (3-5)					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	16.3	19.4	mg/kg	17	20
Zinc, Total	30.2	33.3	mg/kg	10	20
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783347-4 QC Sample: L2326314-01 Client ID: SB-1 (3-5)					
Mercury, Total	ND	ND	mg/kg	NC	20

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2326314
Report Date: 06/02/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-19 QC Batch ID: WG1783346-6 QC Sample: L2326314-01 Client ID: SB-1 (3-5)						
Aluminum, Total	8920	11000	mg/kg	**23**	Q	20
Barium, Total	40.6	50.4	mg/kg	**24**	Q	20
Calcium, Total	647	808	mg/kg	**25**	Q	20
Iron, Total	15200	19700	mg/kg	**30**	Q	20
Magnesium, Total	1900	2280	mg/kg	20		20
Manganese, Total	435	533	mg/kg	**23**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-01
Client ID: SB-1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 09:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	05/12/23 09:38	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-02
Client ID: SB-2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/10/23 10:40
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	05/12/23 09:38	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-03
Client ID: SB-3 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 10:15
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	05/12/23 09:38	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-04
Client ID: SB-8 (1-3)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 11:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	05/12/23 09:38	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-05
Client ID: SB-9 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 12:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	05/12/23 09:38	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-06
Client ID: SB-10 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:45
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	05/12/23 09:52	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-07
Client ID: SB-4 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 13:20
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	05/12/23 09:52	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-08
Client ID: SB-11 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/11/23 15:00
Date Received: 05/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	05/12/23 09:52	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-09
Client ID: SB-13 (4-6)
Sample Location: BKLYN, NY

Date Collected: 05/12/23 13:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	05/13/23 12:34	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-10
Client ID: WOOD-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 09:30
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.3		%	0.100	NA	1	-	05/13/23 12:34	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-11
Client ID: WOOD-2
Sample Location: BKLYN, NY

Date Collected: 05/12/23 10:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.5		%	0.100	NA	1	-	05/13/23 12:34	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-12
Client ID: CONCRETE-1
Sample Location: BKLYN, NY

Date Collected: 05/12/23 11:00
Date Received: 05/12/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.9		%	0.100	NA	1	-	05/13/23 12:34	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-13
Client ID: SB-5 (3-5)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 09:00
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-14
Client ID: SB-7 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 10:30
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-15
Client ID: SB-12 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:10
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-16
Client ID: SB-6 (2-4)
Sample Location: BKLYN, NY

Date Collected: 05/15/23 11:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-17
Client ID: CONCRETE-2
Sample Location: BKLYN, NY

Date Collected: 05/15/23 12:40
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.1		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-18
Client ID: CONCRETE-3
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:15
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

SAMPLE RESULTS

Lab ID: L2326314-19
Client ID: CONCRETE-4
Sample Location: BKLYN, NY

Date Collected: 05/15/23 13:45
Date Received: 05/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Concrete

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	05/16/23 10:13	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: 127 12TH STREET

Lab Number: L2326314

Report Date: 06/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1778081-1 QC Sample: L2326059-10 Client ID: DUP Sample						
Solids, Total	86.8	88.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06-08 QC Batch ID: WG1778084-1 QC Sample: L2326359-01 Client ID: DUP Sample						
Solids, Total	89.3	89.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 09-12 QC Batch ID: WG1778575-1 QC Sample: L2326627-01 Client ID: DUP Sample						
Solids, Total	89.9	90.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 13-19 QC Batch ID: WG1779370-1 QC Sample: L2326846-07 Client ID: DUP Sample						
Solids, Total	55.9	57.1	%	2		20

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
A1	Absent
A2	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-01A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-01B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-01C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-01D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2326314-01F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-01X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-01Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-01Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-02A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-02B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-02C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-02D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2326314-02F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-02X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-02Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-02Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-03A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-03B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-03C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-03D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2326314-03F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-03X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-03Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-03Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-04A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-04B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-04C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-04D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2326314-04F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-04X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-04Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-04Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-05A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-05B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-05C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-05D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2326314-05F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-05X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-05Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-05Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-06A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-06B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-06C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-06D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2326314-06F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-06X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-06Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-06Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-07A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-07B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-07C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-07D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2326314-07F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-07X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-07Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-07Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-08A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-08B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-08C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-08D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2326314-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2326314-08F	Glass 250ml/8oz unpreserved	A	NA		2.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-08X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2326314-08Y	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-08Z	Vial Water preserved split	A	NA		2.9	Y	Absent	12-MAY-23 07:46	NYTCL-8260HLW(14)
L2326314-09A	5 gram Encore Sampler	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-09B	5 gram Encore Sampler	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-09C	5 gram Encore Sampler	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-09D	Glass 60mL/2oz unpreserved	A1	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2326314-09E	Plastic 2oz unpreserved for TS	A1	NA		5.5	Y	Absent		TS(7)
L2326314-09F	Glass 250ml/8oz unpreserved	A1	NA		5.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-09X	Vial MeOH preserved split	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-09Y	Vial Water preserved split	A1	NA		5.5	Y	Absent	13-MAY-23 07:01	NYTCL-8260HLW(14)
L2326314-09Z	Vial Water preserved split	A1	NA		5.5	Y	Absent	13-MAY-23 07:01	NYTCL-8260HLW(14)
L2326314-10A	Vial Large Septa unpreserved (4oz)	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-10B	Glass 120ml/4oz unpreserved	A1	NA		5.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2326314-10C	Glass 120ml/4oz unpreserved	A1	NA		5.5	Y	Absent		NYTCL-8270(14),NYTCL-8082-3540C(365),TS(7),NYTCL-8081(14)
L2326314-10X	Vial MeOH preserved split	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-10Y	Vial Water preserved split	A1	NA		5.5	Y	Absent	**23-MAY-23 13:50**	NYTCL-8260HLW(14)
L2326314-10Z	Vial Water preserved split	A1	NA		5.5	Y	Absent	**23-MAY-23 13:50**	NYTCL-8260HLW(14)
L2326314-11A	Vial Large Septa unpreserved (4oz)	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-11B	Glass 120ml/4oz unpreserved	A1	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2326314-11C	Glass 120ml/4oz unpreserved	A1	NA		5.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8082-3540C(365),NYTCL-8081(14)
L2326314-11X	Vial MeOH preserved split	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-11Y	Vial Water preserved split	A1	NA		5.5	Y	Absent	**23-MAY-23 13:50**	NYTCL-8260HLW(14)
L2326314-11Z	Vial Water preserved split	A1	NA		5.5	Y	Absent	**23-MAY-23 13:50**	NYTCL-8260HLW(14)
L2326314-12A	Vial Large Septa unpreserved (4oz)	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-12B	Glass 120ml/4oz unpreserved	A1	NA		5.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2326314-12C	Glass 500ml/16oz unpreserved	A1	NA		5.5	Y	Absent		TS(7),NYTCL-8081(14)
L2326314-12X	Vial MeOH preserved split	A1	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L2326314-12Y	Vial Water preserved split	A1	NA		5.5	Y	Absent	**23-MAY-23 13:50**	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-12Z	Vial Water preserved split	A1	NA		5.5	Y	Absent	**23-MAY-23 13:50**	NYTCL-8260HLW(14)
L2326314-13A	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-13B	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-13C	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-13D	Glass 60mL/2oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2326314-13E	Plastic 2oz unpreserved for TS	A2	NA		2.7	Y	Absent		TS(7)
L2326314-13F	Glass 250ml/8oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-13X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-13Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-13Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-14A	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-14B	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-14C	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-14D	Glass 60mL/2oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2326314-14E	Plastic 2oz unpreserved for TS	A2	NA		2.7	Y	Absent		TS(7)
L2326314-14F	Glass 250ml/8oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-14X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-14Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-14Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-15A	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-15B	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-15C	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-15D	Glass 60mL/2oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2326314-15E	Plastic 2oz unpreserved for TS	A2	NA		2.7	Y	Absent		TS(7)
L2326314-15F	Glass 250ml/8oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-15X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-15Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-15Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-16A	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-16B	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-16C	5 gram Encore Sampler	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-16D	Glass 60mL/2oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2326314-16E	Plastic 2oz unpreserved for TS	A2	NA		2.7	Y	Absent		TS(7)
L2326314-16F	Glass 250ml/8oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2326314-16X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2326314-16Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-16Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	16-MAY-23 13:10	NYTCL-8260HLW(14)
L2326314-17A	Glass 120ml/4oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2326314-17B	Vial Large Septa unpreserved (4oz)	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-17C	Glass 500ml/16oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8082-CNCRT(365),TS(7),NYTCL-8081(14),NYTCL-8270-CNCRT(14)
L2326314-17X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-17Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	**24-MAY-23 11:00**	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-17Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	**24-MAY-23 11:00**	NYTCL-8260(14)
L2326314-18A	Glass 120ml/4oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2326314-18B	Vial Large Septa unpreserved (4oz)	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-18C	Glass 500ml/16oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8082-CNCRT(365),TS(7),NYTCL-8081(14),NYTCL-8270-CNCRT(14)
L2326314-18X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-18Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	**24-MAY-23 11:00**	NYTCL-8260(14)
L2326314-18Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	**24-MAY-23 11:00**	NYTCL-8260(14)
L2326314-19A	Glass 120ml/4oz unpreserved	A2	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2326314-19B	Vial Large Septa unpreserved (4oz)	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-19C	Glass 500ml/16oz unpreserved	A2	NA		2.7	Y	Absent		NYTCL-8082-CNCRT(365),TS(7),NYTCL-8081(14),NYTCL-8270-CNCRT(14)
L2326314-19X	Vial MeOH preserved split	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-19Y	Vial Water preserved split	A2	NA		2.7	Y	Absent	**24-MAY-23 11:00**	NYTCL-8260(14)
L2326314-19Z	Vial Water preserved split	A2	NA		2.7	Y	Absent	**24-MAY-23 11:00**	NYTCL-8260(14)
L2326314-20A	Vial HCl preserved	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-20B	Vial HCl preserved	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-21A	Vial HCl preserved	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-21B	Vial HCl preserved	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-21C	Vial HCl preserved	A2	NA		2.7	Y	Absent		NYTCL-8260(14)
L2326314-21D	Plastic 250ml HNO3 preserved	A2	<2	<2	2.7	Y	Absent		SE-6020T(180),FE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH STREET
Project Number: 127 12TH STREET

Lab Number: L2326314
Report Date: 06/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2326314-21E	Amber 120ml unpreserved	A2	7	7	2.7	Y	Absent		NYTCL-8082-LVI(365)
L2326314-21F	Amber 120ml unpreserved	A2	7	7	2.7	Y	Absent		NYTCL-8082-LVI(365)
L2326314-21G	Amber 120ml unpreserved	A2	7	7	2.7	Y	Absent		NYTCL-8081(7)
L2326314-21H	Amber 120ml unpreserved	A2	7	7	2.7	Y	Absent		NYTCL-8081(7)
L2326314-21I	Amber 250ml unpreserved	A2	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2326314-21J	Amber 250ml unpreserved	A2	7	7	2.7	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
Project Number:	127 12TH STREET	**Report Date:**	06/02/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
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Footnotes

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

Terms

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

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
Project Number:	127 12TH STREET	**Report Date:**	06/02/23

Data Qualifiers

Identified Compounds (TICs).

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	127 12TH STREET	**Lab Number:**	L2326314
Project Number:	127 12TH STREET	**Report Date:**	06/02/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

Page 1 of 1

Date Rec'd in Lab: 5/12/23

ALPHA Job #: L2326314

Client Information
Client: TENEN ENVIRONMENTAL
Address: NEW YORK, NY
Phone:
Fax:
Email:

Project Information
Project Name: 127 12TH STREET
Project Location: BKLYN, NY
Project #
(Use Project name as Project #) ☒
Project Manager: M. AHMED / M. CARROLL
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
KEEP SDG OPEN

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBs / PESTs	TAL METALS	Total Bottle	Sample Specific Comments
26314-01	SB-1 (3-5)	5/10/23	0945	SOIL	VC	X	X	X	X		
02	SB-2 (3-5)	↓	1040	↓	↓	X	X	X	X		
03	SB-3 (2-4)	5/11/23	1015	↓	↓	X	X	X	X		
04	SB-8 (1-3)	↓	1120	↓	↓	X	X	X	X		
05	SB-9 (2-4)	↓	1200	↓	↓	X	X	X	X		
06	SB-10 (2-4)	↓	1345	↓	↓	X	X	X	X		SB-10 (2-4)
07	SB-4 (3-5)	↓	1320	↓	↓	X	X	X	X		SB-4 (3-5)
08	SB-11 (3-5)	↓	1500	↓	↓	X	X	X	X		

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

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

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

Container Type	EP	A	A	A
Preservative	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	5/11/2023 @ 1600	(AHL)	5-11-23 1541
(AHL)	5-11-23 1830		5-11-23 2100
	5-12-23 0045		5-12-23 0045
	5-12-23 0245	(McKenna)	05/12/23-0245

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 5/12/23

ALPHA Job #: L2326314

Client Information
Client: TENEN ENVIRONMENTAL
Address: NY, NY
Phone:
Fax:
Email:

Project Information
Project Name: 27 12TH STREET
Project Location: BKLYN, NY
Project #
(Use Project name as Project #) ☐
Project Manager: M. AHMED / M. CARROLL
ALPHAQuote #:

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

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

Billing Information
☒ Same as Client Info
PO #

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

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

ADD TO 5/11/23 SAMPLE SDG & KEEP OPEN

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBs/PESTs	TAL METALS	Total Bottle	Sample Specific Comments
2326314-09	SB-13 (4-6)	5/12/23	1330	SOIL	VC	X	X	X	X		
10	WOOD-1	↓	0930	WOOD	↓	X	X	X	X		
11	WOOD-2	↓	1000	WOOD	↓	X	X	X	X		
12	CONCRETE-1	↓	1100	CONCRETE	↓	X	X	X	X		

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

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

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

Container Type	E/P A	A	A	A						
Preservative	A	A	A	A						

Relinquished By:	Date/Time	Received By:	Date/Time
	5/12/2023 @ 16:25		5/12/23 16:25
	5/12/23 19:05		5/12/23 19:12
AAC	5/12/23 23:45	MAC	5/12/23 22:00
			5/12/23 0345

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of

Date Rec'd in Lab: 5/15/23

ALPHA Job #: L2326314

Client Information
Client: TENEN ENVIRONMENTAL
Address: NY, NY
Phone:
Fax:
Email:

Project Information
Project Name: 127 12TH ST
Project Location: BKLYN, NY
Project #
(Use Project name as Project #) ☒
Project Manager: M. AHMED / M. CARROLL
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

ADD TO 5/11 & 5/12 SAMPLES SDG & CLOSE

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBs/Pests	TAL metals					Sample Specific Comments	Total Bottle
26314-13	SB-5(3-5)	5/15/2023	SOIL	0900	VC	X	X	X	X						
14	SB-7(2-4)			1030		X	X	X	X						
15	SB-12(2-4)			1110		X	X	X	X						
16	SB-6(2-4)			1145		X	X	X	X						
17	CONCRETE-2		CONCRETE	1240		X	X	X	X						
18	CONCRETE-3			1315		X	X	X	X						
19	CONCRETE-4			1345		X	X	X	X						
20	TB_SOIL		AQ	—	—	X									
21	FB_SOIL			1430	VC	X	X	X	X						

Container Type: E/P A | A | A | A
Preservative: A | A | A | A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/12/2023 1500	MPJ UALPHA	5/15/23 1500
MPJ UALPHA	5/15/23 1900		5/15/23 19:00
	5/15/23		5/15/23 21:22
AAC	5/15/23 23:15		5/15/23 23:15

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

ANALYTICAL REPORT

Lab Number:	L2327168
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Matthew Carroll
Phone:	(646) 606-2332
Project Name:	127 12TH ST
Project Number:	127 12TH ST
Report Date:	06/05/23

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2327168-01	TW-1	WATER	BKLYN, NY	05/16/23 16:15	05/16/23
L2327168-02	TW-2	WATER	BKLYN, NY	05/16/23 14:30	05/16/23
L2327168-03	TW-3	WATER	BKLYN, NY	05/17/23 10:35	05/17/23
L2327168-04	TW-4	WATER	BKLYN, NY	05/17/23 12:50	05/17/23
L2327168-05	TW-5	WATER	BKLYN, NY	05/17/23 12:15	05/17/23
L2327168-06	TW-6	WATER	BKLYN, NY	05/17/23 15:25	05/17/23
L2327168-07	TW-7	WATER	BKLYN, NY	05/17/23 14:55	05/17/23
L2327168-08	TB_GW	WATER	BKLYN, NY	05/17/23 00:00	05/17/23
L2327168-09	FB_GW	WATER	BKLYN, NY	05/17/23 11:56	05/17/23

Project Name:	127 12TH ST	**Lab Number:**	L2327168
Project Number:	127 12TH ST	**Report Date:**	06/05/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	127 12TH ST	**Lab Number:**	L2327168
Project Number:	127 12TH ST	**Report Date:**	06/05/23

Case Narrative (continued)

Report Submission

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

Semivolatile Organics by SIM

L2327168-09 The Field Blank has a result for Naphthalene present above the reporting limit; however, re-extraction outside of holding time achieved similar results. The results of both extractions are reported.

Total Metals

L2327168-09: The Field Blank has results for barium and sodium present above the reporting limits. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1783695-1 Method Blank, associated with L2327168-01, -02, -03, -05, and -06, has a concentration above the reporting limit for mercury. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

The WG1783695-2 LCS recovery, associated with L2327168-01, -02, -03, -05, and -06, is above the acceptance criteria for mercury (126%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

Dissolved Metals

L2327168-04, -05, and -06: The dissolved results are greater than the total results. The sample containers were verified as being labeled correctly by the laboratory.

L2327168-09: The Field Blank has a result for sodium present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/05/23

ORGANICS

VOLATILES

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 22:52
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	20		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.71		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.4	J	ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	96		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY

Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 22:30
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	31		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.79		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	5.8		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	98		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03 D
Client ID: TW-3
Sample Location: BKLYN, NY

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 22:08
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	320		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
1,3-Dichloropropene, Total	ND		ug/l	1.2	0.36	2.5
1,1-Dichloropropene	ND		ug/l	6.2	1.8	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5

Project Name: 127 12TH ST **Lab Number:** L2327168

Project Number: 127 12TH ST **Report Date:** 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03 D
Client ID: TW-3
Sample Location: BKLYN, NY

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	15		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
Xylenes, Total	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	18		ug/l	6.2	1.8	2.5
1,2-Dichloroethene, Total	18		ug/l	6.2	1.8	2.5
Dibromomethane	ND		ug/l	12	2.5	2.5
1,2,3-Trichloropropane	ND		ug/l	6.2	1.8	2.5
Acrylonitrile	ND		ug/l	12	3.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
Vinyl acetate	ND		ug/l	12	2.5	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
2,2-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,3-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	6.2	1.8	2.5
Bromobenzene	ND		ug/l	6.2	1.8	2.5
n-Butylbenzene	ND		ug/l	6.2	1.8	2.5
sec-Butylbenzene	ND		ug/l	6.2	1.8	2.5
tert-Butylbenzene	ND		ug/l	6.2	1.8	2.5
o-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
p-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Hexachlorobutadiene	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
p-Isopropyltoluene	ND		ug/l	6.2	1.8	2.5
Naphthalene	ND		ug/l	6.2	1.8	2.5

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03 D
Client ID: TW-3
Sample Location: BKLYN, NY
Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3,5-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
p-Diethylbenzene	ND		ug/l	5.0	1.8	2.5
p-Ethyltoluene	ND		ug/l	5.0	1.8	2.5
1,2,4,5-Tetramethylbenzene	ND		ug/l	5.0	1.4	2.5
Ethyl ether	ND		ug/l	6.2	1.8	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	6.2	1.8	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	84		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	95		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 21:46
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	78		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.88		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	94		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 21:24
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	0.94	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	120		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.23	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	4.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	3.8		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	3.8		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	1.4	J	ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	91		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY

Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 21:03
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	2.9		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	1.4	J	ug/l	2.5	0.70	1
sec-Butylbenzene	1.7	J	ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	2.8		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.5	J	ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	52		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	15		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	98		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 20:41
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	13		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.63		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.0	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.0	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	95		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-08
Client ID: TB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 00:00
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 20:19
Analyst: PID

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

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-08
Client ID: TB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 00:00
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-08
Client ID: TB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 00:00
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	80		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/27/23 19:57
Analyst: PID

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

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	73		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	93		70-130

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/27/23 19:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1784947-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/27/23 19:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1784947-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 05/27/23 19:36
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1784947-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	1.0	J	ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	80		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1784947-3 WG1784947-4								
Methylene chloride	89		76		70-130	16		20
1,1-Dichloroethane	100		85		70-130	16		20
Chloroform	100		95		70-130	5		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	95		91		70-130	4		20
Dibromochloromethane	79		79		63-130	0		20
1,1,2-Trichloroethane	79		82		70-130	4		20
Tetrachloroethene	99		94		70-130	5		20
Chlorobenzene	95		87		75-130	9		20
Trichlorofluoromethane	99		92		62-150	7		20
1,2-Dichloroethane	95		95		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	91		87		67-130	4		20
trans-1,3-Dichloropropene	85		85		70-130	0		20
cis-1,3-Dichloropropene	89		84		70-130	6		20
1,1-Dichloropropene	96		89		70-130	8		20
Bromoform	82		81		54-136	1		20
1,1,2,2-Tetrachloroethane	78		78		67-130	0		20
Benzene	99		91		70-130	8		20
Toluene	93		90		70-130	3		20
Ethylbenzene	100		95		70-130	5		20
Chloromethane	96		90		64-130	6		20
Bromomethane	75		73		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1784947-3 WG1784947-4								
Vinyl chloride	87		74		55-140	16		20
Chloroethane	89		81		55-138	9		20
1,1-Dichloroethene	94		79		61-145	17		20
trans-1,2-Dichloroethene	93		77		70-130	19		20
Trichloroethene	98		90		70-130	9		20
1,2-Dichlorobenzene	88		83		70-130	6		20
1,3-Dichlorobenzene	95		86		70-130	10		20
1,4-Dichlorobenzene	91		84		70-130	8		20
Methyl tert butyl ether	86		75		63-130	14		20
p/m-Xylene	105		95		70-130	10		20
o-Xylene	95		85		70-130	11		20
cis-1,2-Dichloroethene	95		87		70-130	9		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	84		81		64-130	4		20
Acrylonitrile	91		82		70-130	10		20
Styrene	95		90		70-130	5		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	65		**53**	Q	58-148	20		20
Carbon disulfide	96		81		51-130	17		20
2-Butanone	78		78		63-138	0		20
Vinyl acetate	100		89		70-130	12		20
4-Methyl-2-pentanone	75		79		59-130	5		20
2-Hexanone	69		70		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1784947-3 WG1784947-4								
Bromochloromethane	86		84		70-130	2		20
2,2-Dichloropropane	120		110		63-133	9		20
1,2-Dibromoethane	85		80		70-130	6		20
1,3-Dichloropropane	88		83		70-130	6		20
1,1,1,2-Tetrachloroethane	91		82		64-130	10		20
Bromobenzene	89		85		70-130	5		20
n-Butylbenzene	94		84		53-136	11		20
sec-Butylbenzene	92		84		70-130	9		20
tert-Butylbenzene	90		83		70-130	8		20
o-Chlorotoluene	100		94		70-130	6		20
p-Chlorotoluene	100		93		70-130	7		20
1,2-Dibromo-3-chloropropane	77		79		41-144	3		20
Hexachlorobutadiene	110		100		63-130	10		20
Isopropylbenzene	86		80		70-130	7		20
p-Isopropyltoluene	95		86		70-130	10		20
Naphthalene	87		75		70-130	15		20
n-Propylbenzene	99		90		69-130	10		20
1,2,3-Trichlorobenzene	94		84		70-130	11		20
1,2,4-Trichlorobenzene	88		82		70-130	7		20
1,3,5-Trimethylbenzene	95		87		64-130	9		20
1,2,4-Trimethylbenzene	96		86		70-130	11		20
1,4-Dioxane	80		80		56-162	0		20
p-Diethylbenzene	88		79		70-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1784947-3 WG1784947-4								
p-Ethyltoluene	93		85		70-130	9		20
1,2,4,5-Tetramethylbenzene	87		76		70-130	13		20
Ethyl ether	76		73		59-134	4		20
trans-1,4-Dichloro-2-butene	83		80		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		94		70-130
Toluene-d8	87		91		70-130
4-Bromofluorobenzene	88		90		70-130
Dibromofluoromethane	83		86		70-130

SEMIVOLATILES

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 13:53
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	81		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 09:59
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.07	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.44		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.21		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	**134**	Q	10-120
4-Terphenyl-d14	90		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY

Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 14:16
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	0.82	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	1.6	J	ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	98		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY

Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 10:15
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.73		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	1.5		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	5.1		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.34		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.29		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.38		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.14		ug/l	0.10	0.01	1
Chrysene	0.31		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.47		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.18		ug/l	0.10	0.01	1
Fluorene	0.92		ug/l	0.10	0.01	1
Phenanthrene	2.9		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.09	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.19		ug/l	0.10	0.01	1
Pyrene	1.1		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.1		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	99		15-120
2,4,6-Tribromophenol	118		10-120
4-Terphenyl-d14	113		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 14:38
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY
Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	51		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	83		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 12:27
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.07	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY
Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	**129**	Q	10-120
4-Terphenyl-d14	91		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 15:00
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	95		10-120
4-Terphenyl-d14	85		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 12:43
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.11		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.06	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.10		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	95		15-120
2,4,6-Tribromophenol	**124**	Q	10-120
4-Terphenyl-d14	97		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 15:23
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	102		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	95		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 13:00
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.07	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.08	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.12		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Chrysene	0.08	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.08	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.08	J	ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	**128**	Q	10-120
4-Terphenyl-d14	102		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY

Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 16:07
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	9.7	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	75		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY

Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 14:21
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.19		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.13		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.11		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.49		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	117		10-120
4-Terphenyl-d14	83		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 16:30
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	10.	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	81		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 14:38
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.46		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.09	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.09	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.17		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	91		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E
Analytical Date: 05/23/23 16:52
Analyst: LJG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 13:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	56		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/23/23 14:54
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.07	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.23		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.04	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.06	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	64		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09 RE
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 06/03/23 19:57
Analyst: AH

Extraction Method: EPA 3510C
Extraction Date: 06/01/23 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.16		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.08	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 127 12TH ST **Lab Number:** L2327168

Project Number: 127 12TH ST **Report Date:** 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09 RE
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	85		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/23/23 09:02
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 01:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09 Batch: WG1781664-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/23/23 09:02
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 01:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09 Batch: WG1781664-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/23/23 09:02
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 01:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09 Batch: WG1781664-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	55		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/22/23 13:26
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 01:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07,09 Batch: WG1781665-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/22/23 13:26
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/22/23 01:55

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-07,09 Batch: WG1781665-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	64		41-149

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 06/02/23 14:35
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/01/23 02:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG1785683-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.06	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.05	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 06/02/23 14:35
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/01/23 02:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG1785683-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	118		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	31		10-120
4-Terphenyl-d14	101		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1781664-2 WG1781664-3								
Acenaphthene	48		58		37-111	19		30
1,2,4-Trichlorobenzene	50		70		39-98	**33**	Q	30
Hexachlorobenzene	55		68		40-140	21		30
Bis(2-chloroethyl)ether	44		55		40-140	22		30
2-Chloronaphthalene	52		65		40-140	22		30
1,2-Dichlorobenzene	47		58		40-140	21		30
1,3-Dichlorobenzene	45		59		40-140	27		30
1,4-Dichlorobenzene	47		60		36-97	24		30
3,3'-Dichlorobenzidine	**36**	Q	61		40-140	**52**	Q	30
2,4-Dinitrotoluene	52		64		48-143	21		30
2,6-Dinitrotoluene	59		68		40-140	14		30
Fluoranthene	50		66		40-140	28		30
4-Chlorophenyl phenyl ether	53		63		40-140	17		30
4-Bromophenyl phenyl ether	55		66		40-140	18		30
Bis(2-chloroisopropyl)ether	40		49		40-140	20		30
Bis(2-chloroethoxy)methane	44		57		40-140	26		30
Hexachlorobutadiene	54		66		40-140	20		30
Hexachlorocyclopentadiene	43		44		40-140	2		30
Hexachloroethane	43		52		40-140	19		30
Isophorone	46		59		40-140	25		30
Naphthalene	49		60		40-140	20		30
Nitrobenzene	47		61		40-140	26		30
NDPA/DPA	51		62		40-140	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1781664-2 WG1781664-3								
n-Nitrosodi-n-propylamine	48		62		29-132	25		30
Bis(2-ethylhexyl)phthalate	56		68		40-140	19		30
Butyl benzyl phthalate	49		66		40-140	30		30
Di-n-butylphthalate	50		63		40-140	23		30
Di-n-octylphthalate	51		63		40-140	21		30
Diethyl phthalate	52		61		40-140	16		30
Dimethyl phthalate	58		71		40-140	20		30
Benzo(a)anthracene	53		65		40-140	20		30
Benzo(a)pyrene	52		67		40-140	25		30
Benzo(b)fluoranthene	53		66		40-140	22		30
Benzo(k)fluoranthene	51		65		40-140	24		30
Chrysene	55		66		40-140	18		30
Acenaphthylene	58		73		45-123	23		30
Anthracene	51		64		40-140	23		30
Benzo(ghi)perylene	51		64		40-140	23		30
Fluorene	52		61		40-140	16		30
Phenanthrene	50		60		40-140	18		30
Dibenzo(a,h)anthracene	51		65		40-140	24		30
Indeno(1,2,3-cd)pyrene	48		62		40-140	25		30
Pyrene	51		65		26-127	24		30
Biphenyl	49		62		40-140	23		30
4-Chloroaniline	52		50		40-140	4		30
2-Nitroaniline	53		70		52-143	28		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1781664-2 WG1781664-3								
3-Nitroaniline	43		62		25-145	**36**	Q	30
4-Nitroaniline	**49**	Q	67		51-143	**31**	Q	30
Dibenzofuran	53		64		40-140	19		30
2-Methylnaphthalene	53		67		40-140	23		30
1,2,4,5-Tetrachlorobenzene	51		63		2-134	21		30
Acetophenone	41		56		39-129	**31**	Q	30
2,4,6-Trichlorophenol	61		77		30-130	23		30
p-Chloro-m-cresol	57		72		23-97	23		30
2-Chlorophenol	46		63		27-123	**31**	Q	30
2,4-Dichlorophenol	56		75		30-130	29		30
2,4-Dimethylphenol	49		61		30-130	22		30
2-Nitrophenol	52		68		30-130	27		30
4-Nitrophenol	56		62		10-80	10		30
2,4-Dinitrophenol	65		40		20-130	**48**	Q	30
4,6-Dinitro-o-cresol	68		49		20-164	**32**	Q	30
Pentachlorophenol	65		90		9-103	**32**	Q	30
Phenol	33		42		12-110	24		30
2-Methylphenol	49		59		30-130	19		30
3-Methylphenol/4-Methylphenol	48		71		30-130	**39**	Q	30
2,4,5-Trichlorophenol	64		85		30-130	28		30
Benzoic Acid	58		72		10-164	22		30
Benzyl Alcohol	45		59		26-116	27		30
Carbazole	**51**	Q	65		55-144	24		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1781664-2 WG1781664-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42		57		21-120
Phenol-d6	32		44		10-120
Nitrobenzene-d5	47		61		23-120
2-Fluorobiphenyl	54		70		15-120
2,4,6-Tribromophenol	64		85		10-120
4-Terphenyl-d14	50		62		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1781665-2 WG1781665-3								
Acenaphthene	62		62		40-140	0		40
2-Chloronaphthalene	58		57		40-140	2		40
Fluoranthene	71		71		40-140	0		40
Hexachlorobutadiene	65		64		40-140	2		40
Naphthalene	56		55		40-140	2		40
Benzo(a)anthracene	74		73		40-140	1		40
Benzo(a)pyrene	80		80		40-140	0		40
Benzo(b)fluoranthene	75		73		40-140	3		40
Benzo(k)fluoranthene	76		76		40-140	0		40
Chrysene	68		68		40-140	0		40
Acenaphthylene	72		72		40-140	0		40
Anthracene	72		71		40-140	1		40
Benzo(ghi)perylene	72		74		40-140	3		40
Fluorene	68		67		40-140	1		40
Phenanthrene	64		63		40-140	2		40
Dibenzo(a,h)anthracene	78		80		40-140	3		40
Indeno(1,2,3-cd)pyrene	76		78		40-140	3		40
Pyrene	70		70		40-140	0		40
2-Methylnaphthalene	63		62		40-140	2		40
Pentachlorophenol	88		90		40-140	2		40
Hexachlorobenzene	74		72		40-140	3		40
Hexachloroethane	64		62		40-140	3		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1781665-2 WG1781665-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		58		21-120
Phenol-d6	53		52		10-120
Nitrobenzene-d5	80		78		23-120
2-Fluorobiphenyl	64		63		15-120
2,4,6-Tribromophenol	85		87		10-120
4-Terphenyl-d14	77		78		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG1785683-2 WG1785683-3								
Acenaphthene	81		89		40-140	9		40
2-Chloronaphthalene	83		91		40-140	9		40
Fluoranthene	84		95		40-140	12		40
Hexachlorobutadiene	76		82		40-140	8		40
Naphthalene	77		86		40-140	11		40
Benzo(a)anthracene	98		108		40-140	10		40
Benzo(a)pyrene	95		104		40-140	9		40
Benzo(b)fluoranthene	89		100		40-140	12		40
Benzo(k)fluoranthene	89		92		40-140	3		40
Chrysene	87		95		40-140	9		40
Acenaphthylene	91		100		40-140	9		40
Anthracene	87		96		40-140	10		40
Benzo(ghi)perylene	88		96		40-140	9		40
Fluorene	86		94		40-140	9		40
Phenanthrene	79		87		40-140	10		40
Dibenzo(a,h)anthracene	88		95		40-140	8		40
Indeno(1,2,3-cd)pyrene	89		97		40-140	9		40
Pyrene	82		92		40-140	11		40
2-Methylnaphthalene	83		91		40-140	9		40
Pentachlorophenol	97		97		40-140	0		40
Hexachlorobenzene	77		82		40-140	6		40
Hexachloroethane	77		85		40-140	10		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG1785683-2 WG1785683-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		77		21-120
Phenol-d6	58		64		10-120
Nitrobenzene-d5	99		111		23-120
2-Fluorobiphenyl	87		95		15-120
2,4,6-Tribromophenol	**130**	Q	**143**	Q	10-120
4-Terphenyl-d14	88		99		41-149

PCBS

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:03
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY

Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:12
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:22
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:31
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:41
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY

Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:50
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 14:59
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/31/23 15:09
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/31/23 11:15
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 05/31/23 01:06
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/23
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07,09 Batch: WG1785127-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07,09 Batch: WG1785127-2 WG1785127-3									
Aroclor 1016	76		78		40-140	3		50	A
Aroclor 1260	72		75		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	A
Decachlorobiphenyl	84		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	77		78		30-150	B

PESTICIDES

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/23/23 15:11
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/21/23 12:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY

Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/23/23 15:22
Analyst: AKM

Extraction Method: EPA 3510C
Extraction Date: 05/21/23 12:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	119		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/24/23 18:32
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY
Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	45		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/24/23 18:44
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/24/23 18:56
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY

Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/24/23 19:09
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/24/23 19:21
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY

Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/24/23 19:33
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/23/23 14:16
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 05/21/23 12:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1781570-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/23/23 14:16
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 05/21/23 12:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1781570-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/24/23 17:31
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-07,09 Batch: WG1782524-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/24/23 17:31
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 05/23/23 20:39

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-07,09 Batch: WG1782524-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1781570-2 WG1781570-3									
Delta-BHC	64		80		30-150	**21**	Q	20	A
Lindane	62		78		30-150	**22**	Q	20	A
Alpha-BHC	65		81		30-150	**22**	Q	20	A
Beta-BHC	66		81		30-150	20		20	A
Heptachlor	69		85		30-150	**22**	Q	20	A
Aldrin	64		79		30-150	**22**	Q	20	A
Heptachlor epoxide	64		78		30-150	**21**	Q	20	A
Endrin	72		88		30-150	20		20	A
Endrin aldehyde	50		60		30-150	18		20	A
Endrin ketone	73		89		30-150	20		20	A
Dieldrin	71		88		30-150	**21**	Q	20	A
4,4'-DDE	68		83		30-150	**21**	Q	20	A
4,4'-DDD	74		92		30-150	**21**	Q	20	A
4,4'-DDT	73		93		30-150	**24**	Q	20	A
Endosulfan I	64		78		30-150	**21**	Q	20	A
Endosulfan II	71		87		30-150	**21**	Q	20	A
Endosulfan sulfate	65		79		30-150	19		20	A
Methoxychlor	85		101		30-150	18		20	A
cis-Chlordane	67		82		30-150	20		20	A
trans-Chlordane	76		97		30-150	**23**	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1781570-2 WG1781570-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		77		30-150	A
Decachlorobiphenyl	93		118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		71		30-150	B
Decachlorobiphenyl	61		75		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-07,09 Batch: WG1782524-2 WG1782524-3									
Delta-BHC	70		64		30-150	10		20	A
Lindane	72		66		30-150	9		20	A
Alpha-BHC	73		68		30-150	8		20	A
Beta-BHC	75		67		30-150	11		20	A
Heptachlor	68		63		30-150	9		20	A
Aldrin	62		60		30-150	3		20	A
Heptachlor epoxide	66		61		30-150	7		20	A
Endrin	68		62		30-150	9		20	A
Endrin aldehyde	52		48		30-150	8		20	A
Endrin ketone	72		65		30-150	10		20	A
Dieldrin	69		67		30-150	3		20	A
4,4'-DDE	64		61		30-150	5		20	A
4,4'-DDD	71		66		30-150	7		20	A
4,4'-DDT	63		61		30-150	4		20	A
Endosulfan I	61		60		30-150	2		20	A
Endosulfan II	67		62		30-150	7		20	A
Endosulfan sulfate	65		60		30-150	8		20	A
Methoxychlor	66		61		30-150	8		20	A
cis-Chlordane	54		53		30-150	3		20	A
trans-Chlordane	78		71		30-150	10		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-07,09 Batch: WG1782524-2 WG1782524-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		66		30-150	A
Decachlorobiphenyl	76		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		66		30-150	B
Decachlorobiphenyl	75		70		30-150	B

METALS

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.06		mg/l	0.0100	0.00327	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.00124		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Barium, Total	0.01579		mg/l	0.00050	0.00017	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Calcium, Total	25.5		mg/l	0.100	0.0394	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00345		mg/l	0.00100	0.00017	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00133		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Copper, Total	0.00262		mg/l	0.00100	0.00038	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Iron, Total	1.92		mg/l	0.0500	0.0191	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Lead, Total	0.00172		mg/l	0.00100	0.00034	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Magnesium, Total	2.20		mg/l	0.0700	0.0242	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Manganese, Total	0.08750		mg/l	0.00100	0.00044	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Mercury, Total	0.00013	JB	mg/l	0.00020	0.00009	1	05/26/23 09:02	05/27/23 13:59	EPA 7470A	1,7470A	DJR
Nickel, Total	0.00182	J	mg/l	0.00200	0.00055	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Potassium, Total	6.72		mg/l	0.100	0.0309	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Selenium, Total	0.00186	J	mg/l	0.00500	0.00173	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Sodium, Total	15.3		mg/l	0.100	0.0293	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Vanadium, Total	0.00237	J	mg/l	0.00500	0.00157	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Zinc, Total	0.00539	J	mg/l	0.01000	0.00341	1	05/26/23 07:41	06/01/23 14:38	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00657	J	mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.00042	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.00980		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-01
Client ID: TW-1
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/16/23 16:15
Date Received: 05/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	22.2		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	0.00140		mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	1.74		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	0.02705		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/28/23 15:27	EPA 7470A	1,7470A	TAA
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	5.95		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	16.4		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 20:45	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.566		mg/l	0.0100	0.00327	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.00066		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Barium, Total	0.03233		mg/l	0.00050	0.00017	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Calcium, Total	58.0		mg/l	0.100	0.0394	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00747		mg/l	0.00100	0.00017	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00107		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Copper, Total	0.00217		mg/l	0.00100	0.00038	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Iron, Total	0.914		mg/l	0.0500	0.0191	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Lead, Total	0.01480		mg/l	0.00100	0.00034	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Magnesium, Total	5.70		mg/l	0.0700	0.0242	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Manganese, Total	0.5193		mg/l	0.00100	0.00044	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/26/23 09:02	05/27/23 14:33	EPA 7470A	1,7470A	DJR
Nickel, Total	0.00194	J	mg/l	0.00200	0.00055	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Potassium, Total	10.8		mg/l	0.100	0.0309	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Selenium, Total	0.00853		mg/l	0.00500	0.00173	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Sodium, Total	47.0		mg/l	0.100	0.0293	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Zinc, Total	0.01187		mg/l	0.01000	0.00341	1	05/26/23 07:41	06/01/23 14:56	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00942	J	mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.00031	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.01857		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-02
Client ID: TW-2
Sample Location: BKLYN, NY
Date Collected: 05/16/23 14:30
Date Received: 05/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	55.7		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	0.00605		mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	0.00034	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Copper, Dissolved	0.00042	J	mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Iron, Dissolved	0.0258	J	mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Lead, Dissolved	0.00096	J	mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	5.32		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	0.4408		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:17	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00069	J	mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	10.6		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	0.00737		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	52.7		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	0.00465	J	mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 20:50	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2.10		mg/l	0.0100	0.00327	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.00197		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Barium, Total	0.01793		mg/l	0.00050	0.00017	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Beryllium, Total	0.00012	J	mg/l	0.00050	0.00010	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Calcium, Total	13.3		mg/l	0.100	0.0394	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00501		mg/l	0.00100	0.00017	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00300		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Copper, Total	0.00485		mg/l	0.00100	0.00038	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Iron, Total	4.38		mg/l	0.0500	0.0191	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Lead, Total	0.01671		mg/l	0.00100	0.00034	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Magnesium, Total	1.51		mg/l	0.0700	0.0242	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Manganese, Total	0.1725		mg/l	0.00100	0.00044	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/26/23 09:02	05/27/23 14:36	EPA 7470A	1,7470A	DJR
Nickel, Total	0.00387		mg/l	0.00200	0.00055	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Potassium, Total	6.16		mg/l	0.100	0.0309	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Sodium, Total	70.9		mg/l	0.100	0.0293	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Vanadium, Total	0.00445	J	mg/l	0.00500	0.00157	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Zinc, Total	0.01385		mg/l	0.01000	0.00341	1	05/26/23 07:41	06/01/23 15:00	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0389		mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.00021	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.00673		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-03
Client ID: TW-3
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 10:35
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	13.1		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	0.00061	J	mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	0.00016	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Copper, Dissolved	0.00052	J	mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Iron, Dissolved	0.0870		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	0.957		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	0.02184		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:21	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	5.87		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	89.6		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 20:55	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.460		mg/l	0.0100	0.00327	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Antimony, Total	0.00127	J	mg/l	0.00400	0.00042	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.03137		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Barium, Total	0.02647		mg/l	0.00050	0.00017	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Calcium, Total	38.6		mg/l	0.100	0.0394	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00147		mg/l	0.00100	0.00017	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00030	J	mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Copper, Total	0.01618		mg/l	0.00100	0.00038	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Iron, Total	0.841		mg/l	0.0500	0.0191	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Lead, Total	0.08182		mg/l	0.00100	0.00034	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Magnesium, Total	4.82		mg/l	0.0700	0.0242	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Manganese, Total	0.02716		mg/l	0.00100	0.00044	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Mercury, Total	0.00027		mg/l	0.00020	0.00009	1	05/31/23 12:58	06/01/23 09:20	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00093	J	mg/l	0.00200	0.00055	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Potassium, Total	11.0		mg/l	0.100	0.0309	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Selenium, Total	0.00854		mg/l	0.00500	0.00173	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Sodium, Total	11.6		mg/l	0.100	0.0293	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Zinc, Total	0.00748	J	mg/l	0.01000	0.00341	1	05/26/23 07:41	06/01/23 15:05	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00448	J	mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	0.00139	J	mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.01905		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.01242		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-04
Client ID: TW-4
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 12:50
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	36.2		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	0.00045	J	mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Copper, Dissolved	0.00579		mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Lead, Dissolved	0.00119		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	4.29		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	0.01490		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:24	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00058	J	mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	10.0		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	0.00647		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	20.4		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 21:00	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.02		mg/l	0.0100	0.00327	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.00116		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Barium, Total	0.02506		mg/l	0.00050	0.00017	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Cadmium, Total	0.00017	J	mg/l	0.00020	0.00005	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Calcium, Total	41.7		mg/l	0.100	0.0394	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00358		mg/l	0.00100	0.00017	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00302		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Copper, Total	0.00535		mg/l	0.00100	0.00038	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Iron, Total	2.09		mg/l	0.0500	0.0191	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Lead, Total	0.00551		mg/l	0.00100	0.00034	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Magnesium, Total	6.35		mg/l	0.0700	0.0242	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Manganese, Total	0.8914		mg/l	0.00100	0.00044	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/26/23 09:02	05/27/23 14:43	EPA 7470A	1,7470A	DJR
Nickel, Total	0.00295		mg/l	0.00200	0.00055	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Potassium, Total	9.45		mg/l	0.100	0.0309	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Selenium, Total	0.0101		mg/l	0.00500	0.00173	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Sodium, Total	19.7		mg/l	0.100	0.0293	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Vanadium, Total	0.00251	J	mg/l	0.00500	0.00157	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Zinc, Total	0.01039		mg/l	0.01000	0.00341	1	05/26/23 07:41	06/01/23 15:10	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00474	J	mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.00030	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.01208		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-05
Client ID: TW-5
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 12:15
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00008	J	mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	40.7		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	0.00129		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Copper, Dissolved	0.00084	J	mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	5.75		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	0.6862		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:27	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00103	J	mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	9.41		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	0.00768		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	34.9		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	0.00360	J	mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 21:04	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.485		mg/l	0.0100	0.00327	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.00207		mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Barium, Total	0.03642		mg/l	0.00050	0.00017	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Calcium, Total	130.		mg/l	0.100	0.0394	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00115		mg/l	0.00100	0.00017	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00041	J	mg/l	0.00050	0.00016	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Copper, Total	0.00088	J	mg/l	0.00100	0.00038	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Iron, Total	3.35		mg/l	0.0500	0.0191	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Lead, Total	0.00146		mg/l	0.00100	0.00034	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Magnesium, Total	10.6		mg/l	0.0700	0.0242	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Manganese, Total	0.9269		mg/l	0.00100	0.00044	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/26/23 09:02	05/27/23 14:46	EPA 7470A	1,7470A	DJR
Nickel, Total	0.00131	J	mg/l	0.00200	0.00055	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Potassium, Total	10.4		mg/l	0.100	0.0309	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Sodium, Total	41.0		mg/l	0.100	0.0293	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/26/23 07:41	06/01/23 15:15	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0119		mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.00130		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.02004		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-06
Client ID: TW-6
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 15:25
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	120.		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	0.00016	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Iron, Dissolved	0.146		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	12.7		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	1.235		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:31	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00064	J	mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	9.78		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	61.4		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 21:09	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2.56		mg/l	0.0100	0.00327	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Arsenic, Total	0.00139		mg/l	0.00050	0.00016	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Barium, Total	0.02085		mg/l	0.00050	0.00017	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Beryllium, Total	0.00014	J	mg/l	0.00050	0.00010	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Calcium, Total	58.9		mg/l	0.100	0.0394	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Chromium, Total	0.00565		mg/l	0.00100	0.00017	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Cobalt, Total	0.00175		mg/l	0.00050	0.00016	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Copper, Total	0.00849		mg/l	0.00100	0.00038	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Iron, Total	2.59		mg/l	0.0500	0.0191	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Lead, Total	0.00766		mg/l	0.00100	0.00034	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Magnesium, Total	4.95		mg/l	0.0700	0.0242	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Manganese, Total	0.4340		mg/l	0.00100	0.00044	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/31/23 12:58	06/01/23 09:23	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00399		mg/l	0.00200	0.00055	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Potassium, Total	3.66		mg/l	0.100	0.0309	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Selenium, Total	0.00209	J	mg/l	0.00500	0.00173	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Sodium, Total	10.8		mg/l	0.100	0.0293	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Vanadium, Total	0.00615		mg/l	0.00500	0.00157	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Zinc, Total	0.01258		mg/l	0.01000	0.00341	1	05/31/23 11:21	06/01/23 18:09	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.108		mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	0.00067		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.00716		mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-07
Client ID: TW-7
Sample Location: BKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 05/17/23 14:55
Date Received: 05/17/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	51.6		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	0.00034	J	mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	0.00023	J	mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Copper, Dissolved	0.00103		mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Iron, Dissolved	0.110		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	4.16		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	0.3396		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:34	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00057	J	mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	3.23		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	13.0		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	0.00210	J	mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 21:14	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Barium, Total	0.00053		mg/l	0.00050	0.00017	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/31/23 12:58	06/01/23 09:26	EPA 7470A	1,7470A	DMB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Sodium, Total	0.117		mg/l	0.100	0.0293	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Thallium, Total	0.00015	J	mg/l	0.00100	0.00014	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/31/23 11:21	06/01/23 17:31	EPA 3005A	1,6020B	EGW
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Barium, Dissolved	0.00023	J	mg/l	0.00050	0.00017	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

SAMPLE RESULTS

Lab ID: L2327168-09
Client ID: FB_GW
Sample Location: BKLYN, NY
Date Collected: 05/17/23 11:56
Date Received: 05/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/31/23 00:37	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Sodium, Dissolved	0.106		mg/l	0.100	0.0293	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Thallium, Dissolved	0.00018	J	mg/l	0.00100	0.00014	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	06/01/23 20:35	EPA 3005A	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-07,09 Batch: WG1783403-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/27/23 06:36	05/30/23 13:30	1,6020B	EGW

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-07,09 Batch: WG1783404-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/27/23 09:15	05/28/23 15:20	1,7470A	TAA

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1783692-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/26/23 07:41	05/30/23 08:28	1,6020B	EGW

Prep Information

Digestion Method: EPA 3005A

Project Name: 127 12TH ST
Project Number: 127 12TH ST
Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,05-06 Batch: WG1783695-1										
Mercury, Total	0.00070		mg/l	0.00020	0.00009	1	05/26/23 09:02	05/27/23 13:53	1,7470A	DJR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 07,09 Batch: WG1784051-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Copper, Total	ND		mg/l	0.00100	0.00038	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Sodium, Total	0.0301	J	mg/l	0.100	0.0293	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/31/23 11:21	06/01/23 16:15	1,6020B	EGW

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04,07,09 Batch: WG1784056-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/31/23 12:58	06/01/23 08:45	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1783403-2								
Aluminum, Dissolved	105		-		80-120	-		
Antimony, Dissolved	87		-		80-120	-		
Arsenic, Dissolved	100		-		80-120	-		
Barium, Dissolved	99		-		80-120	-		
Beryllium, Dissolved	101		-		80-120	-		
Cadmium, Dissolved	103		-		80-120	-		
Calcium, Dissolved	96		-		80-120	-		
Chromium, Dissolved	101		-		80-120	-		
Cobalt, Dissolved	101		-		80-120	-		
Copper, Dissolved	104		-		80-120	-		
Iron, Dissolved	102		-		80-120	-		
Lead, Dissolved	99		-		80-120	-		
Magnesium, Dissolved	95		-		80-120	-		
Manganese, Dissolved	103		-		80-120	-		
Nickel, Dissolved	100		-		80-120	-		
Potassium, Dissolved	98		-		80-120	-		
Selenium, Dissolved	97		-		80-120	-		
Silver, Dissolved	109		-		80-120	-		
Sodium, Dissolved	102		-		80-120	-		
Thallium, Dissolved	100		-		80-120	-		
Vanadium, Dissolved	101		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1783403-2					
Zinc, Dissolved	100	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG1783404-2					
Mercury, Dissolved	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1783692-2					
Aluminum, Total	112	-	80-120	-	
Antimony, Total	93	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	104	-	80-120	-	
Beryllium, Total	112	-	80-120	-	
Cadmium, Total	107	-	80-120	-	
Calcium, Total	105	-	80-120	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	86	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	108	-	80-120	-	
Lead, Total	104	-	80-120	-	
Magnesium, Total	104	-	80-120	-	
Manganese, Total	106	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	111	-	80-120	-	
Selenium, Total	112	-	80-120	-	
Silver, Total	111	-	80-120	-	
Sodium, Total	104	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery		LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1783692-2						
Zinc, Total	104		-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-06 Batch: WG1783695-2						
Mercury, Total	**126**	Q	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,09 Batch: WG1784051-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	89	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	103	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	102	-	80-120	-	
Calcium, Total	117	-	80-120	-	
Chromium, Total	106	-	80-120	-	
Cobalt, Total	103	-	80-120	-	
Copper, Total	105	-	80-120	-	
Iron, Total	105	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	105	-	80-120	-	
Manganese, Total	107	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	112	-	80-120	-	
Selenium, Total	110	-	80-120	-	
Silver, Total	108	-	80-120	-	
Sodium, Total	113	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	105	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,09 Batch: WG1784051-2					
Zinc, Total	99	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 04,07,09 Batch: WG1784056-2					
Mercury, Total	105	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-3 QC Sample: L2328578-01 Client ID: MS Sample												
Aluminum, Dissolved	0.0164	2	2.27	113		-	-		75-125	-		20
Antimony, Dissolved	ND	0.5	0.5117	102		-	-		75-125	-		20
Arsenic, Dissolved	0.00020J	0.12	0.1233	103		-	-		75-125	-		20
Barium, Dissolved	0.3696	2	2.421	102		-	-		75-125	-		20
Beryllium, Dissolved	ND	0.05	0.04923	98		-	-		75-125	-		20
Cadmium, Dissolved	0.00020	0.053	0.05110	96		-	-		75-125	-		20
Calcium, Dissolved	218.	10	273	**550**	Q	-	-		75-125	-		20
Chromium, Dissolved	0.00076J	0.2	0.2076	104		-	-		75-125	-		20
Cobalt, Dissolved	0.00228	0.5	0.5103	102		-	-		75-125	-		20
Copper, Dissolved	0.00194	0.25	0.2526	100		-	-		75-125	-		20
Iron, Dissolved	0.0456J	1	1.02	102		-	-		75-125	-		20
Lead, Dissolved	ND	0.53	0.5579	105		-	-		75-125	-		20
Magnesium, Dissolved	52.5	10	61.1	86		-	-		75-125	-		20
Manganese, Dissolved	0.7975	0.5	1.283	97		-	-		75-125	-		20
Nickel, Dissolved	0.00194J	0.5	0.4915	98		-	-		75-125	-		20
Potassium, Dissolved	9.41	10	19.4	100		-	-		75-125	-		20
Selenium, Dissolved	0.00214J	0.12	0.115	96		-	-		75-125	-		20
Silver, Dissolved	ND	0.05	0.05300	106		-	-		75-125	-		20
Sodium, Dissolved	1550	10	1640	**900**	Q	-	-		75-125	-		20
Thallium, Dissolved	ND	0.12	0.1268	106		-	-		75-125	-		20
Vanadium, Dissolved	ND	0.5	0.5301	106		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-3 QC Sample: L2328578-01 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.4503	90	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783404-3 QC Sample: L2327168-01 Client ID: TW-1									
Mercury, Dissolved	ND	0.005	0.00468	94	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1783692-3 QC Sample: L2327109-01 Client ID: MS Sample										
Aluminum, Total	0.088	2	2.36	114		-	-	75-125	-	20
Antimony, Total	ND	0.5	0.5284	106		-	-	75-125	-	20
Arsenic, Total	0.00052	0.12	0.1333	111		-	-	75-125	-	20
Barium, Total	0.1410	2	2.257	106		-	-	75-125	-	20
Beryllium, Total	0.03153	0.05	0.09432	**126**	Q	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05778	109		-	-	75-125	-	20
Calcium, Total	65.8	10	77.0	112		-	-	75-125	-	20
Chromium, Total	0.00080J	0.2	0.2068	103		-	-	75-125	-	20
Cobalt, Total	0.00029J	0.5	0.5117	102		-	-	75-125	-	20
Copper, Total	0.00122	0.25	0.2643	105		-	-	75-125	-	20
Iron, Total	32.6	1	39.6	**700**	Q	-	-	75-125	-	20
Lead, Total	0.00079J	0.53	0.5921	112		-	-	75-125	-	20
Magnesium, Total	7.72	10	20.7	**130**	Q	-	-	75-125	-	20
Manganese, Total	5.705	0.5	6.398	**139**	Q	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.5168	103		-	-	75-125	-	20
Potassium, Total	11.0	10	22.3	113		-	-	75-125	-	20
Selenium, Total	0.00328J	0.12	0.144	120		-	-	75-125	-	20
Silver, Total	ND	0.05	0.05566	111		-	-	75-125	-	20
Sodium, Total	48.7	10	60.9	122		-	-	75-125	-	20
Thallium, Total	0.00021J	0.12	0.1436	120		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5243	105		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1783692-3 QC Sample: L2327109-01 Client ID: MS Sample									
Zinc, Total	0.1844	0.5	0.7378	111	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-06 QC Batch ID: WG1783695-3 QC Sample: L2327168-01 Client ID: TW-1									
Mercury, Total	0.00013JB	0.005	0.00513	103	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,09 QC Batch ID: WG1784051-3 WG1784051-4 QC Sample: L2327391-01 Client ID: MS Sample										
Aluminum, Total	0.007J	2	2.16	108	2.09	104		75-125	3	20
Antimony, Total	ND	0.5	0.5234	105	0.5011	100		75-125	4	20
Arsenic, Total	0.00722	0.12	0.1357	107	0.1402	111		75-125	3	20
Barium, Total	0.1547	2	2.243	104	2.211	103		75-125	1	20
Beryllium, Total	0.00042J	0.05	0.05172	103	0.05119	102		75-125	1	20
Cadmium, Total	ND	0.053	0.05463	103	0.05412	102		75-125	1	20
Calcium, Total	68.5	10	79.9	114	78.4	99		75-125	2	20
Chromium, Total	0.00083J	0.2	0.2096	105	0.2103	105		75-125	0	20
Cobalt, Total	0.00132	0.5	0.5130	102	0.5126	102		75-125	0	20
Copper, Total	ND	0.25	0.2598	104	0.2644	106		75-125	2	20
Iron, Total	16.4	1	17.6	120	17.7	**130**	Q	75-125	1	20
Lead, Total	ND	0.53	0.5393	102	0.5305	100		75-125	2	20
Magnesium, Total	17.2	10	28.0	108	27.3	101		75-125	3	20
Manganese, Total	1.346	0.5	1.904	112	1.905	112		75-125	0	20
Nickel, Total	0.00499	0.5	0.5135	102	0.5115	101		75-125	0	20
Potassium, Total	45.2	10	57.1	119	56.1	109		75-125	2	20
Selenium, Total	ND	0.12	0.130	108	0.131	109		75-125	1	20
Silver, Total	ND	0.05	0.05410	108	0.05300	106		75-125	2	20
Sodium, Total	61.6	10	70.0	84	69.1	75		75-125	1	20
Thallium, Total	0.00016J	0.12	0.1234	103	0.1207	100		75-125	2	20
Vanadium, Total	ND	0.5	0.5228	104	0.5270	105		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,09	QC Batch ID: WG1784051-3	WG1784051-4	QC Sample: L2327391-01	Client ID: MS Sample					
Zinc, Total	ND	0.5	0.4950	99	0.4953	99	75-125	0	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,09 QC Batch ID: WG1784051-7 WG1784051-8 QC Sample: L2327391-02 Client ID: MS Sample											
Aluminum, Total	0.007J	2	2.08	104		2.12	106		75-125	2	20
Antimony, Total	ND	0.5	0.4772	95		0.4812	96		75-125	1	20
Arsenic, Total	0.00737	0.12	0.1358	107		0.1386	109		75-125	2	20
Barium, Total	0.1483	2	2.162	101		2.197	102		75-125	2	20
Beryllium, Total	0.00039J	0.05	0.05224	104		0.05075	102		75-125	3	20
Cadmium, Total	ND	0.053	0.05200	98		0.05220	98		75-125	0	20
Calcium, Total	71.6	10	80.0	84		81.0	94		75-125	1	20
Chromium, Total	0.00077J	0.2	0.2043	102		0.2040	102		75-125	0	20
Cobalt, Total	0.0012	0.5	0.4960	99		0.4961	99		75-125	0	20
Copper, Total	ND	0.25	0.2554	102		0.2556	102		75-125	0	20
Iron, Total	15.4	1	16.5	110		16.7	**130**	Q	75-125	1	20
Lead, Total	ND	0.53	0.5101	96		0.5134	97		75-125	1	20
Magnesium, Total	16.9	10	26.8	99		27.4	105		75-125	2	20
Manganese, Total	1.397	0.5	1.956	112		1.971	115		75-125	1	20
Nickel, Total	0.00476	0.5	0.4995	99		0.5016	99		75-125	0	20
Potassium, Total	44.3	10	54.3	100		56.1	118		75-125	3	20
Selenium, Total	ND	0.12	0.134	112		0.137	114		75-125	2	20
Silver, Total	ND	0.05	0.05192	104		0.05227	104		75-125	1	20
Sodium, Total	59.5	10	67.5	80		67.9	84		75-125	1	20
Thallium, Total	0.0002J	0.12	0.1158	96		0.1166	97		75-125	1	20
Vanadium, Total	ND	0.5	0.5159	103		0.5100	102		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,09 QC Batch ID: WG1784051-7 WG1784051-8 QC Sample: L2327391-02 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.4880	98	0.4871	97	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 04,07,09 QC Batch ID: WG1784056-3 WG1784056-4 QC Sample: L2327391-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00501	100	0.00521	104	75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 04,07,09 QC Batch ID: WG1784056-5 WG1784056-6 QC Sample: L2327391-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00473	95	0.00506	101	75-125	7	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-4 QC Sample: L2328578-01 Client ID: DUP Sample						
Aluminum, Dissolved	0.0164	0.0169	mg/l	3		20
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	0.00020J	0.00022J	mg/l	NC		20
Barium, Dissolved	0.3696	0.3819	mg/l	3		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	0.00020	0.00022	mg/l	7		20
Calcium, Dissolved	218.	202	mg/l	8		20
Chromium, Dissolved	0.00076J	0.00072J	mg/l	NC		20
Cobalt, Dissolved	0.00228	0.00234	mg/l	3		20
Copper, Dissolved	0.00194	0.00198	mg/l	2		20
Iron, Dissolved	0.0456J	0.0468J	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	52.5	54.0	mg/l	3		20
Manganese, Dissolved	0.7975	0.7864	mg/l	1		20
Nickel, Dissolved	0.00194J	0.00194J	mg/l	NC		20
Potassium, Dissolved	9.41	9.49	mg/l	1		20
Selenium, Dissolved	0.00214J	0.00220J	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Thallium, Dissolved	ND	0.00046J	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: 127 12TH ST

Lab Number: L2327168

Report Date: 06/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-4 QC Sample: L2328578-01 Client ID: DUP Sample					
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-4 QC Sample: L2328578-01 Client ID: DUP Sample					
Sodium, Dissolved	1550	1550	mg/l	0	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783404-4 QC Sample: L2327168-01 Client ID: TW-1					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1783692-4 QC Sample: L2327109-01 Client ID: DUP Sample					
Antimony, Total	ND	0.00054J	mg/l	NC	20
Arsenic, Total	0.00052	0.00054	mg/l	4	20
Barium, Total	0.1410	0.1393	mg/l	1	20
Beryllium, Total	0.03153	0.03288	mg/l	4	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00080J	0.00081J	mg/l	NC	20
Cobalt, Total	0.00029J	0.00027J	mg/l	NC	20
Copper, Total	0.00122	0.00125	mg/l	2	20
Iron, Total	32.6	33.0	mg/l	1	20
Lead, Total	0.00079J	0.00081J	mg/l	NC	20
Nickel, Total	ND	ND	mg/l	NC	20
Selenium, Total	0.00328J	0.00362J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Thallium, Total	0.00021J	0.00053J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.1844	0.1886	mg/l	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,05-06 QC Batch ID: WG1783695-4 QC Sample: L2327168-01 Client ID: TW-1					
Mercury, Total	0.00013JB	0.00009J	mg/l	NC	20

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2327168
Report Date: 06/05/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-6 QC Sample: L2328578-01 Client ID: DUP Sample						
Barium, Dissolved	0.3696	0.3576	mg/l	3		20
Calcium, Dissolved	218.	276.	mg/l	**27**	Q	20
Magnesium, Dissolved	52.5	52.0	mg/l	1		20
Manganese, Dissolved	0.7975	0.8021	mg/l	1		20
Potassium, Dissolved	9.41	9.22	mg/l	2		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG1783403-6 QC Sample: L2328578-01 Client ID: DUP Sample						
Sodium, Dissolved	1550	1520	mg/l	2		20

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
A1	Absent
B1	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2327168-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2327168-01C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2327168-01D	Plastic 250ml unpreserved	A	7	7	2.8	Y	Absent		-
L2327168-01E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2327168-01F	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-01G	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-01H	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-01I	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-01J	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-01K	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.8	Y	Absent		SE-6020S(180),V-6020S(180),K-6020S(180),CU-6020S(180),MN-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2327168-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2327168-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2327168-02D	Plastic 250ml unpreserved	A	7	7	2.8	Y	Absent		-
L2327168-02E	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		FE-6020T(180),BA-6020T(180),TL-6020T(180),SE-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2327168-02F	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-02G	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-02H	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-02I	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-02J	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-02K	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-02X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.8	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),TL-6020S(180),NI-6020S(180),NA-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2327168-03A	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-03B	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-03C	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-03D	Plastic 250ml unpreserved	B1	7	7	3.0	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-03E	Plastic 250ml HNO3 preserved	B1	<2	<2	3.0	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CO-6020T(180)
L2327168-03F	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-03G	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-03H	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-03I	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-03J	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-03K	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-03X	Plastic 120ml HNO3 preserved Filtrates	B1	NA		3.0	Y	Absent		V-6020S(180),CU-6020S(180),SE-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),BA-6020S(180),PB-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2327168-04A	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-04B	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-04C	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-04D	Plastic 250ml unpreserved	B1	7	7	3.0	Y	Absent		-
L2327168-04E	Plastic 250ml HNO3 preserved	B1	<2	<2	3.0	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2327168-04F	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-04G	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-04H	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: 127 12TH ST

Lab Number: L2327168
Report Date: 06/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-04I	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-04J	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-04K	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-04X	Plastic 120ml HNO3 preserved Filtrates	B1	NA		3.0	Y	Absent		SE-6020S(180),K-6020S(180),V-6020S(180),CU-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),TL-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),NA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2327168-05A	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-05B	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-05C	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-05D	Plastic 250ml unpreserved	B1	7	7	3.0	Y	Absent		-
L2327168-05E	Plastic 250ml HNO3 preserved	B1	<2	<2	3.0	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2327168-05F	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-05G	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-05H	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-05I	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-05J	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-05K	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

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Project Number: 127 12TH ST

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Report Date: 06/05/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-05X	Plastic 120ml HNO3 preserved Filtrates	B1	NA		3.0	Y	Absent		K-6020S(180),CU-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),PB-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),BA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2327168-06A	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-06B	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-06C	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-06D	Plastic 250ml unpreserved	B1	7	7	3.0	Y	Absent		-
L2327168-06E	Plastic 250ml HNO3 preserved	B1	<2	<2	3.0	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AG-6020T(180),MG-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)
L2327168-06F	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-06G	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-06H	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-06I	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-06J	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-06K	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-06X	Plastic 120ml HNO3 preserved Filtrates	B1	NA		3.0	Y	Absent		V-6020S(180),CU-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2327168-07A	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-07B	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-07C	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-07D	Plastic 250ml unpreserved	B1	7	7	3.0	Y	Absent		-
L2327168-07E	Plastic 250ml HNO3 preserved	B1	<2	<2	3.0	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2327168-07F	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-07G	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-07H	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-07I	Amber 120ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-07J	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-07K	Amber 250ml unpreserved	B1	7	7	3.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-07X	Plastic 120ml HNO3 preserved Filtrates	B1	NA		3.0	Y	Absent		V-6020S(180),K-6020S(180),SE-6020S(180),CU-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),MG-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2327168-08A	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-08B	Vial HCl preserved	B1	NA		3.0	Y	Absent		NYTCL-8260(14)
L2327168-09A	Vial HCl preserved	A1	NA		2.0	Y	Absent		NYTCL-8260(14)
L2327168-09B	Vial HCl preserved	A1	NA		2.0	Y	Absent		NYTCL-8260(14)
L2327168-09C	Vial HCl preserved	A1	NA		2.0	Y	Absent		NYTCL-8260(14)
L2327168-09D	Plastic 250ml unpreserved	A1	7	7	2.0	Y	Absent		-

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2327168-09E	Plastic 250ml HNO3 preserved	A1	<2	<2	2.0	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),MG-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),CO-6020T(180)
L2327168-09F	Amber 120ml unpreserved	A1	7	7	2.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-09G	Amber 120ml unpreserved	A1	7	7	2.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-09H	Amber 120ml unpreserved	A1	7	7	2.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-09I	Amber 120ml unpreserved	A1	7	7	2.0	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2327168-09J	Amber 250ml unpreserved	A1	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-09K	Amber 250ml unpreserved	A1	7	7	2.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2327168-09X	Plastic 120ml HNO3 preserved Filtrates	A1	NA		2.0	Y	Absent		V-6020S(180),CU-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),BA-6020S(180),NA-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name:	127 12TH ST	**Lab Number:**	L2327168
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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH ST	**Lab Number:**	L2327168
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Footnotes

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

Terms

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

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH ST	**Lab Number:**	L2327168
Project Number:	127 12TH ST	**Report Date:**	06/05/23

Data Qualifiers

Identified Compounds (TICs).

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	127 12TH ST	**Lab Number:**	L2327168
Project Number:	127 12TH ST	**Report Date:**	06/05/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 1

Date Rec'd in Lab: 5/17/23

ALPHA Job #: L0327168

Client Information

Client: TENEN ENVIRONMENTAL
Address: NY, NY
Phone:
Fax:
Email:

Project Information

Project Name: 127 12TH ST
Project Location: BKLYN, NY
Project #
(Use Project name as Project #) ☒
Project Manager: M. AHMED / M. CARROLL
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

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

Regulatory Requirement

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

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

KEEP GW SPG OPEN.

Please specify Metals or TAL.

TAL, TOTAL & DISSOLVED - LAB FILTERED

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBs / Pests	TAL Metals (Total / Dissolved)	Total Bottle	Sample Specific Comments
27168 01	TW-1	5/16/2023	1615	GW	VC	X	X	X	X		
02	TW-2	↓	1430	↓	↓	X	X	X	X		

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

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

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

Container Type	V	A	A	P
Preservative	B	A	A	A/C

Relinquished By:	Date/Time	Received By:	Date/Time
	5/16/2023 1700		5/16/23 1630
	5/16/23 19:05		5/16/23 2015
Paul Mazzella	5/16/23 0020	Paul Mazzella	5/17/23 0020
	5/17/23 0220		5/17/23 0220

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page of

Date Rec'd in Lab: 5/18/23

ALPHA Job #: L2327168

Client Information
Client: TENEN ENVIRONMENTAL
Address: NY, NY
Phone:
Fax:
Email:

Project Information
Project Name: 127 12TH STREET
Project Location: BKLYN, NY
Project #
(Use Project name as Project #) ☒
Project Manager: M. AHMED / M. CARROLL
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

ADD TO 5/16/2023 SAMPLE SDG & CLOSE SDG

Please specify Metals or TAL.

TAL METALS - TOTAL+DISSOLVED (LAB TO FILTER)

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	SVOCs	PCBs / Pests	TAL METALS (TOTAL + DISSOLVED)				Sample Specific Comments	Total Bottle
27168-03	TW-3	5/17/2023	1035	GW	VC	X	X	X	X					
04	TW-4		1250	GW		X	X	X	X					
05	TW-5		1215	GW		X	X	X	X					
06	TW-6		1325	GW		X	X	X	X				USE 1325 AS TIME	
07	TW-7		1455	GW		X	X	X	X					
08	TRIP BLANK_GW		—	AQ	—	X								
09	FB_GW		1135	AQ	VC	X	X	X	X					

Container Type	V	A	A	P	
Preservative	B	A	A	A/C	

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	5/17/23 @ 1600	MRJN ALPHA	5/16/23 16:00
MRJN ALPHA	5/17/23 19:45	Paul Mazzella	5/17/23 16:00
Paul Mazzella	5/17/23 2100	Paul Mazzella	5/17/23 2030
SR2	5/18/23 0300		5/18/23 0300

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

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

ANALYTICAL REPORT

Lab Number:	L2328582
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Mohamed Ahmed
Phone:	(646) 606-2332
Project Name:	127 12TH STREET
Project Number:	Not Specified
Report Date:	06/06/23

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110) , NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2328582-01	SV-1	SOIL_VAPOR	BKLYN, NY	05/22/23 18:00	05/22/23
L2328582-02	SV-2	SOIL_VAPOR	BKLYN, NY	05/22/23 18:00	05/22/23
L2328582-03	SV-3	SOIL_VAPOR	BKLYN, NY	05/22/23 18:00	05/22/23
L2328582-04	SV-4	SOIL_VAPOR	BKLYN, NY	05/22/23 18:00	05/22/23
L2328582-05	SV-5	SOIL_VAPOR	BKLYN, NY	05/22/23 18:06	05/22/23
L2328582-06	IA-1	AIR	BKLYN, NY	05/22/23 18:45	05/22/23
L2328582-07	AA-1	AIR	BKLYN, NY	05/22/23 18:00	05/22/23

Project Name:	127 12TH STREET	**Lab Number:**	L2328582
Project Number:	Not Specified	**Report Date:**	06/06/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 12, 2023. The canister certification results are provided as an addendum.

L2328582-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2328582-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2328582-02D2: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2328582-03D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2328582-04D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2328582-05D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2328582-06D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s)

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Case Narrative (continued)

that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 06/06/23

AIR

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-01 D
Client ID: SV-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/02/23 23:57
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.36	--	ND	11.7	--		11.83
Chloromethane	ND	2.36	--	ND	4.87	--		11.83
Freon-114	ND	2.36	--	ND	16.5	--		11.83
Vinyl chloride	ND	2.36	--	ND	6.03	--		11.83
1,3-Butadiene	ND	2.36	--	ND	5.22	--		11.83
Bromomethane	ND	2.36	--	ND	9.16	--		11.83
Chloroethane	ND	2.36	--	ND	6.23	--		11.83
Ethanol	ND	59.1	--	ND	111	--		11.83
Vinyl bromide	ND	2.36	--	ND	10.3	--		11.83
Acetone	ND	11.8	--	ND	28.0	--		11.83
Trichlorofluoromethane	ND	2.36	--	ND	13.3	--		11.83
Isopropanol	ND	5.91	--	ND	14.5	--		11.83
1,1-Dichloroethene	ND	2.36	--	ND	9.36	--		11.83
Tertiary butyl Alcohol	ND	5.91	--	ND	17.9	--		11.83
Methylene chloride	ND	5.91	--	ND	20.5	--		11.83
3-Chloropropene	ND	2.36	--	ND	7.39	--		11.83
Carbon disulfide	ND	2.36	--	ND	7.35	--		11.83
Freon-113	ND	2.36	--	ND	18.1	--		11.83
trans-1,2-Dichloroethene	ND	2.36	--	ND	9.36	--		11.83
1,1-Dichloroethane	ND	2.36	--	ND	9.55	--		11.83
Methyl tert butyl ether	ND	2.36	--	ND	8.51	--		11.83
2-Butanone	ND	5.91	--	ND	17.4	--		11.83
cis-1,2-Dichloroethene	95.2	2.36	--	377	9.36	--		11.83

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-01 D
Client ID: SV-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.91	--	ND	21.3	--		11.83
Chloroform	ND	2.36	--	ND	11.5	--		11.83
Tetrahydrofuran	ND	5.91	--	ND	17.4	--		11.83
1,2-Dichloroethane	ND	2.36	--	ND	9.55	--		11.83
n-Hexane	ND	2.36	--	ND	8.32	--		11.83
1,1,1-Trichloroethane	ND	2.36	--	ND	12.9	--		11.83
Benzene	ND	2.36	--	ND	7.54	--		11.83
Carbon tetrachloride	ND	2.36	--	ND	14.8	--		11.83
Cyclohexane	ND	2.36	--	ND	8.12	--		11.83
1,2-Dichloropropane	ND	2.36	--	ND	10.9	--		11.83
Bromodichloromethane	ND	2.36	--	ND	15.8	--		11.83
1,4-Dioxane	ND	2.36	--	ND	8.50	--		11.83
Trichloroethene	15.0	2.36	--	80.6	12.7	--		11.83
2,2,4-Trimethylpentane	ND	2.36	--	ND	11.0	--		11.83
Heptane	ND	2.36	--	ND	9.67	--		11.83
cis-1,3-Dichloropropene	ND	2.36	--	ND	10.7	--		11.83
4-Methyl-2-pentanone	ND	5.91	--	ND	24.2	--		11.83
trans-1,3-Dichloropropene	ND	2.36	--	ND	10.7	--		11.83
1,1,2-Trichloroethane	ND	2.36	--	ND	12.9	--		11.83
Toluene	ND	2.36	--	ND	8.89	--		11.83
2-Hexanone	ND	2.36	--	ND	9.67	--		11.83
Dibromochloromethane	ND	2.36	--	ND	20.1	--		11.83
1,2-Dibromoethane	ND	2.36	--	ND	18.1	--		11.83
Tetrachloroethene	841	2.36	--	5700	16.0	--		11.83
Chlorobenzene	ND	2.36	--	ND	10.9	--		11.83
Ethylbenzene	ND	2.36	--	ND	10.3	--		11.83

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-01 D
Client ID: SV-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	4.73	--	ND	20.5	--		11.83
Bromoform	ND	2.36	--	ND	24.4	--		11.83
Styrene	ND	2.36	--	ND	10.0	--		11.83
1,1,2,2-Tetrachloroethane	ND	2.36	--	ND	16.2	--		11.83
o-Xylene	ND	2.36	--	ND	10.3	--		11.83
4-Ethyltoluene	ND	2.36	--	ND	11.6	--		11.83
1,3,5-Trimethylbenzene	ND	2.36	--	ND	11.6	--		11.83
1,2,4-Trimethylbenzene	ND	2.36	--	ND	11.6	--		11.83
Benzyl chloride	ND	2.36	--	ND	12.2	--		11.83
1,3-Dichlorobenzene	ND	2.36	--	ND	14.2	--		11.83
1,4-Dichlorobenzene	ND	2.36	--	ND	14.2	--		11.83
1,2-Dichlorobenzene	ND	2.36	--	ND	14.2	--		11.83
1,2,4-Trichlorobenzene	ND	2.36	--	ND	17.5	--		11.83
Hexachlorobutadiene	ND	2.36	--	ND	25.2	--		11.83

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-02 D
Client ID: SV-2
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/23 00:36
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	4.42	--	ND	21.9	--		22.08
Chloromethane	ND	4.42	--	ND	9.13	--		22.08
Freon-114	ND	4.42	--	ND	30.9	--		22.08
Vinyl chloride	ND	4.42	--	ND	11.3	--		22.08
1,3-Butadiene	ND	4.42	--	ND	9.78	--		22.08
Bromomethane	ND	4.42	--	ND	17.2	--		22.08
Chloroethane	ND	4.42	--	ND	11.7	--		22.08
Ethanol	ND	110	--	ND	207	--		22.08
Vinyl bromide	ND	4.42	--	ND	19.3	--		22.08
Acetone	ND	22.1	--	ND	52.5	--		22.08
Trichlorofluoromethane	ND	4.42	--	ND	24.8	--		22.08
Isopropanol	ND	11.0	--	ND	27.0	--		22.08
1,1-Dichloroethene	ND	4.42	--	ND	17.5	--		22.08
Tertiary butyl Alcohol	ND	11.0	--	ND	33.3	--		22.08
Methylene chloride	ND	11.0	--	ND	38.2	--		22.08
3-Chloropropene	ND	4.42	--	ND	13.8	--		22.08
Carbon disulfide	ND	4.42	--	ND	13.8	--		22.08
Freon-113	ND	4.42	--	ND	33.9	--		22.08
trans-1,2-Dichloroethene	ND	4.42	--	ND	17.5	--		22.08
1,1-Dichloroethane	ND	4.42	--	ND	17.9	--		22.08
Methyl tert butyl ether	ND	4.42	--	ND	15.9	--		22.08
2-Butanone	ND	11.0	--	ND	32.4	--		22.08
cis-1,2-Dichloroethene	6.67	4.42	--	26.4	17.5	--		22.08

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-02 D
Client ID: SV-2
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	11.0	--	ND	39.6	--		22.08
Chloroform	154	4.42	--	752	21.6	--		22.08
Tetrahydrofuran	ND	11.0	--	ND	32.4	--		22.08
1,2-Dichloroethane	ND	4.42	--	ND	17.9	--		22.08
n-Hexane	ND	4.42	--	ND	15.6	--		22.08
1,1,1-Trichloroethane	ND	4.42	--	ND	24.1	--		22.08
Benzene	ND	4.42	--	ND	14.1	--		22.08
Carbon tetrachloride	ND	4.42	--	ND	27.8	--		22.08
Cyclohexane	ND	4.42	--	ND	15.2	--		22.08
1,2-Dichloropropane	ND	4.42	--	ND	20.4	--		22.08
Bromodichloromethane	ND	4.42	--	ND	29.6	--		22.08
1,4-Dioxane	ND	4.42	--	ND	15.9	--		22.08
Trichloroethene	100	4.42	--	537	23.8	--		22.08
2,2,4-Trimethylpentane	ND	4.42	--	ND	20.6	--		22.08
Heptane	ND	4.42	--	ND	18.1	--		22.08
cis-1,3-Dichloropropene	ND	4.42	--	ND	20.1	--		22.08
4-Methyl-2-pentanone	ND	11.0	--	ND	45.1	--		22.08
trans-1,3-Dichloropropene	ND	4.42	--	ND	20.1	--		22.08
1,1,2-Trichloroethane	ND	4.42	--	ND	24.1	--		22.08
Toluene	5.23	4.42	--	19.7	16.7	--		22.08
2-Hexanone	ND	4.42	--	ND	18.1	--		22.08
Dibromochloromethane	ND	4.42	--	ND	37.7	--		22.08
1,2-Dibromoethane	ND	4.42	--	ND	34.0	--		22.08
Tetrachloroethene	2360	4.42	--	16000	30.0	--	E	22.08
Chlorobenzene	ND	4.42	--	ND	20.4	--		22.08
Ethylbenzene	ND	4.42	--	ND	19.2	--		22.08

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-02 D
Client ID: SV-2
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	8.83	--	ND	38.4	--		22.08
Bromoform	ND	4.42	--	ND	45.7	--		22.08
Styrene	ND	4.42	--	ND	18.8	--		22.08
1,1,2,2-Tetrachloroethane	ND	4.42	--	ND	30.4	--		22.08
o-Xylene	ND	4.42	--	ND	19.2	--		22.08
4-Ethyltoluene	ND	4.42	--	ND	21.7	--		22.08
1,3,5-Trimethylbenzene	ND	4.42	--	ND	21.7	--		22.08
1,2,4-Trimethylbenzene	ND	4.42	--	ND	21.7	--		22.08
Benzyl chloride	ND	4.42	--	ND	22.9	--		22.08
1,3-Dichlorobenzene	ND	4.42	--	ND	26.6	--		22.08
1,4-Dichlorobenzene	ND	4.42	--	ND	26.6	--		22.08
1,2-Dichlorobenzene	ND	4.42	--	ND	26.6	--		22.08
1,2,4-Trichlorobenzene	ND	4.42	--	ND	32.8	--		22.08
Hexachlorobutadiene	ND	4.42	--	ND	47.1	--		22.08

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	98		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-02 D2
Client ID: SV-2
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/23 19:55
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Tetrachloroethene	2370	20.2	--	16100	137	--		100.8

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-03 D
Client ID: SV-3
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/23 01:15
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	4.73	--	ND	23.4	--		23.65
Chloromethane	ND	4.73	--	ND	9.77	--		23.65
Freon-114	ND	4.73	--	ND	33.1	--		23.65
Vinyl chloride	ND	4.73	--	ND	12.1	--		23.65
1,3-Butadiene	ND	4.73	--	ND	10.5	--		23.65
Bromomethane	ND	4.73	--	ND	18.4	--		23.65
Chloroethane	ND	4.73	--	ND	12.5	--		23.65
Ethanol	ND	118	--	ND	222	--		23.65
Vinyl bromide	ND	4.73	--	ND	20.7	--		23.65
Acetone	ND	23.6	--	ND	56.1	--		23.65
Trichlorofluoromethane	ND	4.73	--	ND	26.6	--		23.65
Isopropanol	ND	11.8	--	ND	29.0	--		23.65
1,1-Dichloroethene	ND	4.73	--	ND	18.8	--		23.65
Tertiary butyl Alcohol	ND	11.8	--	ND	35.8	--		23.65
Methylene chloride	ND	11.8	--	ND	41.0	--		23.65
3-Chloropropene	ND	4.73	--	ND	14.8	--		23.65
Carbon disulfide	ND	4.73	--	ND	14.7	--		23.65
Freon-113	ND	4.73	--	ND	36.3	--		23.65
trans-1,2-Dichloroethene	ND	4.73	--	ND	18.8	--		23.65
1,1-Dichloroethane	ND	4.73	--	ND	19.1	--		23.65
Methyl tert butyl ether	ND	4.73	--	ND	17.1	--		23.65
2-Butanone	ND	11.8	--	ND	34.8	--		23.65
cis-1,2-Dichloroethene	ND	4.73	--	ND	18.8	--		23.65

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-03 D
Client ID: SV-3
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	11.8	--	ND	42.5	--		23.65
Chloroform	ND	4.73	--	ND	23.1	--		23.65
Tetrahydrofuran	ND	11.8	--	ND	34.8	--		23.65
1,2-Dichloroethane	ND	4.73	--	ND	19.1	--		23.65
n-Hexane	ND	4.73	--	ND	16.7	--		23.65
1,1,1-Trichloroethane	ND	4.73	--	ND	25.8	--		23.65
Benzene	ND	4.73	--	ND	15.1	--		23.65
Carbon tetrachloride	ND	4.73	--	ND	29.8	--		23.65
Cyclohexane	ND	4.73	--	ND	16.3	--		23.65
1,2-Dichloropropane	ND	4.73	--	ND	21.9	--		23.65
Bromodichloromethane	ND	4.73	--	ND	31.7	--		23.65
1,4-Dioxane	ND	4.73	--	ND	17.0	--		23.65
Trichloroethene	9.84	4.73	--	52.9	25.4	--		23.65
2,2,4-Trimethylpentane	ND	4.73	--	ND	22.1	--		23.65
Heptane	ND	4.73	--	ND	19.4	--		23.65
cis-1,3-Dichloropropene	ND	4.73	--	ND	21.5	--		23.65
4-Methyl-2-pentanone	ND	11.8	--	ND	48.4	--		23.65
trans-1,3-Dichloropropene	ND	4.73	--	ND	21.5	--		23.65
1,1,2-Trichloroethane	ND	4.73	--	ND	25.8	--		23.65
Toluene	5.13	4.73	--	19.3	17.8	--		23.65
2-Hexanone	ND	4.73	--	ND	19.4	--		23.65
Dibromochloromethane	ND	4.73	--	ND	40.3	--		23.65
1,2-Dibromoethane	ND	4.73	--	ND	36.4	--		23.65
Tetrachloroethene	1720	4.73	--	11700	32.1	--		23.65
Chlorobenzene	ND	4.73	--	ND	21.8	--		23.65
Ethylbenzene	ND	4.73	--	ND	20.5	--		23.65

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-03 D
Client ID: SV-3
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	9.46	--	ND	41.1	--		23.65
Bromoform	ND	4.73	--	ND	48.9	--		23.65
Styrene	ND	4.73	--	ND	20.1	--		23.65
1,1,2,2-Tetrachloroethane	ND	4.73	--	ND	32.5	--		23.65
o-Xylene	ND	4.73	--	ND	20.5	--		23.65
4-Ethyltoluene	ND	4.73	--	ND	23.3	--		23.65
1,3,5-Trimethylbenzene	ND	4.73	--	ND	23.3	--		23.65
1,2,4-Trimethylbenzene	ND	4.73	--	ND	23.3	--		23.65
Benzyl chloride	ND	4.73	--	ND	24.5	--		23.65
1,3-Dichlorobenzene	ND	4.73	--	ND	28.4	--		23.65
1,4-Dichlorobenzene	ND	4.73	--	ND	28.4	--		23.65
1,2-Dichlorobenzene	ND	4.73	--	ND	28.4	--		23.65
1,2,4-Trichlorobenzene	ND	4.73	--	ND	35.1	--		23.65
Hexachlorobutadiene	ND	4.73	--	ND	50.5	--		23.65

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	98		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-04 D
Client ID: SV-4
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/23 19:19
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	4.83	--	ND	23.9	--		24.13
Chloromethane	ND	4.83	--	ND	9.97	--		24.13
Freon-114	ND	4.83	--	ND	33.8	--		24.13
Vinyl chloride	ND	4.83	--	ND	12.3	--		24.13
1,3-Butadiene	ND	4.83	--	ND	10.7	--		24.13
Bromomethane	ND	4.83	--	ND	18.8	--		24.13
Chloroethane	ND	4.83	--	ND	12.7	--		24.13
Ethanol	ND	121	--	ND	228	--		24.13
Vinyl bromide	ND	4.83	--	ND	21.1	--		24.13
Acetone	ND	24.1	--	ND	57.2	--		24.13
Trichlorofluoromethane	ND	4.83	--	ND	27.1	--		24.13
Isopropanol	ND	12.1	--	ND	29.7	--		24.13
1,1-Dichloroethene	ND	4.83	--	ND	19.2	--		24.13
Tertiary butyl Alcohol	ND	12.1	--	ND	36.7	--		24.13
Methylene chloride	ND	12.1	--	ND	42.0	--		24.13
3-Chloropropene	ND	4.83	--	ND	15.1	--		24.13
Carbon disulfide	ND	4.83	--	ND	15.0	--		24.13
Freon-113	ND	4.83	--	ND	37.0	--		24.13
trans-1,2-Dichloroethene	ND	4.83	--	ND	19.2	--		24.13
1,1-Dichloroethane	ND	4.83	--	ND	19.5	--		24.13
Methyl tert butyl ether	ND	4.83	--	ND	17.4	--		24.13
2-Butanone	ND	12.1	--	ND	35.7	--		24.13
cis-1,2-Dichloroethene	ND	4.83	--	ND	19.2	--		24.13

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-04 D
Client ID: SV-4
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	12.1	--	ND	43.6	--		24.13
Chloroform	5.24	4.83	--	25.6	23.6	--		24.13
Tetrahydrofuran	ND	12.1	--	ND	35.7	--		24.13
1,2-Dichloroethane	ND	4.83	--	ND	19.5	--		24.13
n-Hexane	ND	4.83	--	ND	17.0	--		24.13
1,1,1-Trichloroethane	ND	4.83	--	ND	26.4	--		24.13
Benzene	ND	4.83	--	ND	15.4	--		24.13
Carbon tetrachloride	ND	4.83	--	ND	30.4	--		24.13
Cyclohexane	ND	4.83	--	ND	16.6	--		24.13
1,2-Dichloropropane	ND	4.83	--	ND	22.3	--		24.13
Bromodichloromethane	ND	4.83	--	ND	32.4	--		24.13
1,4-Dioxane	ND	4.83	--	ND	17.4	--		24.13
Trichloroethene	8.52	4.83	--	45.8	26.0	--		24.13
2,2,4-Trimethylpentane	ND	4.83	--	ND	22.6	--		24.13
Heptane	ND	4.83	--	ND	19.8	--		24.13
cis-1,3-Dichloropropene	ND	4.83	--	ND	21.9	--		24.13
4-Methyl-2-pentanone	ND	12.1	--	ND	49.6	--		24.13
trans-1,3-Dichloropropene	ND	4.83	--	ND	21.9	--		24.13
1,1,2-Trichloroethane	ND	4.83	--	ND	26.4	--		24.13
Toluene	ND	4.83	--	ND	18.2	--		24.13
2-Hexanone	ND	4.83	--	ND	19.8	--		24.13
Dibromochloromethane	ND	4.83	--	ND	41.1	--		24.13
1,2-Dibromoethane	ND	4.83	--	ND	37.1	--		24.13
Tetrachloroethene	1610	4.83	--	10900	32.8	--		24.13
Chlorobenzene	ND	4.83	--	ND	22.2	--		24.13
Ethylbenzene	ND	4.83	--	ND	21.0	--		24.13

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-04 D
Client ID: SV-4
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	9.65	--	ND	41.9	--		24.13
Bromoform	ND	4.83	--	ND	49.9	--		24.13
Styrene	ND	4.83	--	ND	20.6	--		24.13
1,1,2,2-Tetrachloroethane	ND	4.83	--	ND	33.2	--		24.13
o-Xylene	ND	4.83	--	ND	21.0	--		24.13
4-Ethyltoluene	ND	4.83	--	ND	23.7	--		24.13
1,3,5-Trimethylbenzene	ND	4.83	--	ND	23.7	--		24.13
1,2,4-Trimethylbenzene	ND	4.83	--	ND	23.7	--		24.13
Benzyl chloride	ND	4.83	--	ND	25.0	--		24.13
1,3-Dichlorobenzene	ND	4.83	--	ND	29.0	--		24.13
1,4-Dichlorobenzene	ND	4.83	--	ND	29.0	--		24.13
1,2-Dichlorobenzene	ND	4.83	--	ND	29.0	--		24.13
1,2,4-Trichlorobenzene	ND	4.83	--	ND	35.9	--		24.13
Hexachlorobutadiene	ND	4.83	--	ND	51.5	--		24.13

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	100		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-05 D
Client ID: SV-5
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:06
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/03/23 02:34
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--		10
Chloromethane	ND	2.00	--	ND	4.13	--		10
Freon-114	ND	2.00	--	ND	14.0	--		10
Vinyl chloride	ND	2.00	--	ND	5.11	--		10
1,3-Butadiene	ND	2.00	--	ND	4.42	--		10
Bromomethane	ND	2.00	--	ND	7.77	--		10
Chloroethane	ND	2.00	--	ND	5.28	--		10
Ethanol	ND	50.0	--	ND	94.2	--		10
Vinyl bromide	ND	2.00	--	ND	8.74	--		10
Acetone	ND	10.0	--	ND	23.8	--		10
Trichlorofluoromethane	ND	2.00	--	ND	11.2	--		10
Isopropanol	ND	5.00	--	ND	12.3	--		10
1,1-Dichloroethene	ND	2.00	--	ND	7.93	--		10
Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--		10
Methylene chloride	6.61	5.00	--	23.0	17.4	--		10
3-Chloropropene	ND	2.00	--	ND	6.26	--		10
Carbon disulfide	ND	2.00	--	ND	6.23	--		10
Freon-113	ND	2.00	--	ND	15.3	--		10
trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10
1,1-Dichloroethane	ND	2.00	--	ND	8.09	--		10
Methyl tert butyl ether	ND	2.00	--	ND	7.21	--		10
2-Butanone	6.33	5.00	--	18.7	14.7	--		10
cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--		10

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-05 D
Client ID: SV-5
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:06
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	5.00	--	ND	18.0	--		10
Chloroform	ND	2.00	--	ND	9.77	--		10
Tetrahydrofuran	ND	5.00	--	ND	14.7	--		10
1,2-Dichloroethane	ND	2.00	--	ND	8.09	--		10
n-Hexane	ND	2.00	--	ND	7.05	--		10
1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Benzene	ND	2.00	--	ND	6.39	--		10
Carbon tetrachloride	ND	2.00	--	ND	12.6	--		10
Cyclohexane	ND	2.00	--	ND	6.88	--		10
1,2-Dichloropropane	ND	2.00	--	ND	9.24	--		10
Bromodichloromethane	ND	2.00	--	ND	13.4	--		10
1,4-Dioxane	ND	2.00	--	ND	7.21	--		10
Trichloroethene	3.88	2.00	--	20.9	10.7	--		10
2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--		10
Heptane	ND	2.00	--	ND	8.20	--		10
cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
4-Methyl-2-pentanone	ND	5.00	--	ND	20.5	--		10
trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--		10
1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--		10
Toluene	8.56	2.00	--	32.3	7.54	--		10
2-Hexanone	ND	2.00	--	ND	8.20	--		10
Dibromochloromethane	ND	2.00	--	ND	17.0	--		10
1,2-Dibromoethane	ND	2.00	--	ND	15.4	--		10
Tetrachloroethene	548	2.00	--	3720	13.6	--		10
Chlorobenzene	ND	2.00	--	ND	9.21	--		10
Ethylbenzene	ND	2.00	--	ND	8.69	--		10

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-05 D
Client ID: SV-5
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:06
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.19	4.00	--	22.5	17.4	--		10
Bromoform	ND	2.00	--	ND	20.7	--		10
Styrene	ND	2.00	--	ND	8.52	--		10
1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--		10
o-Xylene	ND	2.00	--	ND	8.69	--		10
4-Ethyltoluene	ND	2.00	--	ND	9.83	--		10
1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--		10
Benzyl chloride	ND	2.00	--	ND	10.4	--		10
1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--		10
1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--		10
Hexachlorobutadiene	ND	2.00	--	ND	21.3	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-06
Client ID: IA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:45
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/02/23 22:37
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.464	0.200	--	2.29	0.989	--		1
Chloromethane	0.592	0.200	--	1.22	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	5.69	5.00	--	10.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.42	1.00	--	15.3	2.38	--		1
Trichlorofluoromethane	0.208	0.200	--	1.17	1.12	--		1
Isopropanol	2.81	0.500	--	6.91	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	6.17	0.500	--	21.4	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.45	0.500	--	13.1	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-06
Client ID: IA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:45
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.285	0.200	--	1.00	0.705	--		1
Benzene	0.213	0.200	--	0.680	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	3.05	0.500	--	12.5	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	2.27	0.200	--	8.55	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.357	0.200	--	1.55	0.869	--		1
p/m-Xylene	1.23	0.400	--	5.34	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.350	0.200	--	1.52	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-06
Client ID: IA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:45
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.330	0.200	--	1.62	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-06
Client ID: IA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:45
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/02/23 22:37
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.088	0.020	--	0.349	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.073	0.020	--	0.459	0.126	--		1
Trichloroethene	0.897	0.020	--	4.82	0.107	--		1
Tetrachloroethene	173	0.020	--	1170	0.136	--	E	1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-06 D
Client ID: IA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:45
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/03/23 18:41
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	187	0.200	--	1270	1.36	--		10

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	87		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-07
Client ID: AA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/02/23 21:58
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.499	0.200	--	2.47	0.989	--		1
Chloromethane	0.586	0.200	--	1.21	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.34	1.00	--	7.93	2.38	--		1
Trichlorofluoromethane	0.206	0.200	--	1.16	1.12	--		1
Isopropanol	0.856	0.500	--	2.10	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.07	0.500	--	3.72	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.22	0.500	--	3.60	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-07
Client ID: AA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.611	0.500	--	2.50	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.496	0.200	--	1.87	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-07
Client ID: AA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

SAMPLE RESULTS

Lab ID: L2328582-07
Client ID: AA-1
Sample Location: BKLYN, NY

Date Collected: 05/22/23 18:00
Date Received: 05/22/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/02/23 21:58
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.070	0.020	--	0.440	0.126	--		1
Trichloroethene	0.022	0.020	--	0.118	0.107	--		1
Tetrachloroethene	14.8	0.020	--	100	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/02/23 15:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03,05-07 Batch: WG1786616-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/02/23 15:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03,05-07 Batch: WG1786616-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/02/23 15:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03,05-07 Batch: WG1786616-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 06/02/23 15:57

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 06-07 Batch: WG1786617-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/03/23 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02,04 Batch: WG1786874-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/03/23 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02,04 Batch: WG1786874-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/03/23 16:46

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 02,04 Batch: WG1786874-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 06/03/23 17:25

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 06 Batch: WG1786875-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-07 Batch: WG1786616-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	93		-		70-130	-		
Freon-114	99		-		70-130	-		
Vinyl chloride	94		-		70-130	-		
1,3-Butadiene	95		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	93		-		70-130	-		
Ethanol	66		-		40-160	-		
Vinyl bromide	84		-		70-130	-		
Acetone	90		-		40-160	-		
Trichlorofluoromethane	91		-		70-130	-		
Isopropanol	87		-		40-160	-		
1,1-Dichloroethene	94		-		70-130	-		
Tertiary butyl Alcohol	87		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	92		-		70-130	-		
Carbon disulfide	93		-		70-130	-		
Freon-113	94		-		70-130	-		
trans-1,2-Dichloroethene	87		-		70-130	-		
1,1-Dichloroethane	90		-		70-130	-		
Methyl tert butyl ether	95		-		70-130	-		
2-Butanone	98		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-07 Batch: WG1786616-3								
Ethyl Acetate	93		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
1,2-Dichloroethane	92		-		70-130	-		
n-Hexane	88		-		70-130	-		
1,1,1-Trichloroethane	90		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	98		-		70-130	-		
Cyclohexane	87		-		70-130	-		
1,2-Dichloropropane	90		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	97		-		70-130	-		
Trichloroethene	91		-		70-130	-		
2,2,4-Trimethylpentane	90		-		70-130	-		
Heptane	92		-		70-130	-		
cis-1,3-Dichloropropene	102		-		70-130	-		
4-Methyl-2-pentanone	108		-		70-130	-		
trans-1,3-Dichloropropene	90		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	84		-		70-130	-		
2-Hexanone	88		-		70-130	-		
Dibromochloromethane	94		-		70-130	-		
1,2-Dibromoethane	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-07 Batch: WG1786616-3								
Tetrachloroethene	91		-		70-130	-		
Chlorobenzene	89		-		70-130	-		
Ethylbenzene	86		-		70-130	-		
p/m-Xylene	89		-		70-130	-		
Bromoform	93		-		70-130	-		
Styrene	87		-		70-130	-		
1,1,2,2-Tetrachloroethane	94		-		70-130	-		
o-Xylene	89		-		70-130	-		
4-Ethyltoluene	85		-		70-130	-		
1,3,5-Trimethylbenzene	86		-		70-130	-		
1,2,4-Trimethylbenzene	92		-		70-130	-		
Benzyl chloride	91		-		70-130	-		
1,3-Dichlorobenzene	91		-		70-130	-		
1,4-Dichlorobenzene	93		-		70-130	-		
1,2-Dichlorobenzene	94		-		70-130	-		
1,2,4-Trichlorobenzene	105		-		70-130	-		
Hexachlorobutadiene	98		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 06-07 Batch: WG1786617-3								
Vinyl chloride	86		-		70-130	-		25
1,1-Dichloroethene	87		-		70-130	-		25
cis-1,2-Dichloroethene	87		-		70-130	-		25
1,1,1-Trichloroethane	89		-		70-130	-		25
Carbon tetrachloride	89		-		70-130	-		25
Trichloroethene	85		-		70-130	-		25
Tetrachloroethene	85		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,04 Batch: WG1786874-3								
Dichlorodifluoromethane	96		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	95		-		70-130	-		
Vinyl chloride	92		-		70-130	-		
1,3-Butadiene	93		-		70-130	-		
Bromomethane	100		-		70-130	-		
Chloroethane	91		-		70-130	-		
Ethanol	69		-		40-160	-		
Vinyl bromide	85		-		70-130	-		
Acetone	89		-		40-160	-		
Trichlorofluoromethane	92		-		70-130	-		
Isopropanol	88		-		40-160	-		
1,1-Dichloroethene	93		-		70-130	-		
Tertiary butyl Alcohol	88		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	91		-		70-130	-		
Carbon disulfide	85		-		70-130	-		
Freon-113	94		-		70-130	-		
trans-1,2-Dichloroethene	87		-		70-130	-		
1,1-Dichloroethane	89		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
2-Butanone	95		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: Not Specified

Lab Number: L2328582

Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,04 Batch: WG1786874-3								
Ethyl Acetate	94		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	92		-		70-130	-		
1,2-Dichloroethane	90		-		70-130	-		
n-Hexane	88		-		70-130	-		
1,1,1-Trichloroethane	89		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	87		-		70-130	-		
1,2-Dichloropropane	88		-		70-130	-		
Bromodichloromethane	97		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	91		-		70-130	-		
2,2,4-Trimethylpentane	89		-		70-130	-		
Heptane	91		-		70-130	-		
cis-1,3-Dichloropropene	99		-		70-130	-		
4-Methyl-2-pentanone	106		-		70-130	-		
trans-1,3-Dichloropropene	88		-		70-130	-		
1,1,2-Trichloroethane	94		-		70-130	-		
Toluene	86		-		70-130	-		
2-Hexanone	88		-		70-130	-		
Dibromochloromethane	94		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 02,04 Batch: WG1786874-3								
Tetrachloroethene	93		-		70-130	-		
Chlorobenzene	92		-		70-130	-		
Ethylbenzene	90		-		70-130	-		
p/m-Xylene	90		-		70-130	-		
Bromoform	97		-		70-130	-		
Styrene	90		-		70-130	-		
1,1,2,2-Tetrachloroethane	95		-		70-130	-		
o-Xylene	92		-		70-130	-		
4-Ethyltoluene	86		-		70-130	-		
1,3,5-Trimethylbenzene	87		-		70-130	-		
1,2,4-Trimethylbenzene	92		-		70-130	-		
Benzyl chloride	93		-		70-130	-		
1,3-Dichlorobenzene	90		-		70-130	-		
1,4-Dichlorobenzene	92		-		70-130	-		
1,2-Dichlorobenzene	95		-		70-130	-		
1,2,4-Trichlorobenzene	107		-		70-130	-		
Hexachlorobutadiene	100		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH STREET

Project Number: Not Specified

Lab Number: L2328582

Report Date: 06/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 06 Batch: WG1786875-3								
Vinyl chloride	84		-		70-130	-		25
1,1-Dichloroethene	86		-		70-130	-		25
cis-1,2-Dichloroethene	87		-		70-130	-		25
1,1,1-Trichloroethane	87		-		70-130	-		25
Carbon tetrachloride	89		-		70-130	-		25
Trichloroethene	85		-		70-130	-		25
Tetrachloroethene	87		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG1786616-5 QC Sample: L2328582-06 Client ID: IA-1						
Dichlorodifluoromethane	0.464	0.447	ppbV	4		25
Chloromethane	0.592	0.584	ppbV	1		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	5.69	6.38	ppbV	11		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	6.42	6.35	ppbV	1		25
Trichlorofluoromethane	0.208	0.209	ppbV	0		25
Isopropanol	2.81	2.62	ppbV	7		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	6.17	6.10	ppbV	1		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	4.45	4.33	ppbV	3		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG1786616-5 QC Sample: L2328582-06 Client ID: IA-1						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.285	0.279	ppbV	2		25
Benzene	0.213	0.208	ppbV	2		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	3.05	2.97	ppbV	3		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	2.27	2.27	ppbV	0		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.357	0.352	ppbV	1		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03,05-07 QC Batch ID: WG1786616-5 QC Sample: L2328582-06 Client ID: IA-1						
p/m-Xylene	1.23	1.22	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.350	0.353	ppbV	1		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.330	0.333	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 06-07 QC Batch ID: WG1786617-5 QC Sample: L2328582-06 Client ID: IA-1						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	0.088	0.098	ppbV	11		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.073	0.075	ppbV	3		25
Trichloroethene	0.897	0.895	ppbV	0		25
Tetrachloroethene	173E	174E	ppbV	1		25

Project Name: 127 12TH STREET

Project Number:

Lab Number: L2328582

Report Date: 06/06/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2328582-01	SV-1	01281	Flow 5	05/12/23	423663		-	-	-	Pass	4.5	4.5	0
L2328582-01	SV-1	234	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.5	-4.7	-	-	-	-
L2328582-02	SV-2	01282	Flow 5	05/12/23	423663		-	-	-	Pass	4.5	4.3	5
L2328582-02	SV-2	2596	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.5	-4.8	-	-	-	-
L2328582-03	SV-3	01624	Flow 5	05/12/23	423663		-	-	-	Pass	4.5	4.5	0
L2328582-03	SV-3	336	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.4	-4.8	-	-	-	-
L2328582-04	SV-4	0541	Flow 5	05/12/23	423663		-	-	-	Pass	4.5	4.7	4
L2328582-04	SV-4	471	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.5	-7.0	-	-	-	-
L2328582-05	SV-5	0410	Flow 5	05/12/23	423663		-	-	-	Pass	4.5	4.0	12
L2328582-05	SV-5	2276	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.2	-8.1	-	-	-	-
L2328582-06	IA-1	01585	Flow 4	05/12/23	423663		-	-	-	Pass	4.5	4.6	2
L2328582-06	IA-1	461	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.4	-9.4	-	-	-	-
L2328582-07	AA-1	0616	Flow 4	05/12/23	423663		-	-	-	Pass	4.5	4.4	2
L2328582-07	AA-1	239	2.7L Can	05/12/23	423663	L2325305-02	Pass	-29.5	-5.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 05/08/23 19:08
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/08/23 19:08
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2325305
Report Date: 06/06/23

Air Canister Certification Results

Lab ID: L2325305-02
Client ID: CAN 354 SHELF 15
Sample Location:

Date Collected: 05/05/23 18:00
Date Received: 05/08/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: 127 12TH STREET
Project Number: Not Specified

Lab Number: L2328582
Report Date: 06/06/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2328582-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2328582-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2328582-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2328582-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2328582-05A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2328582-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2328582-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	127 12TH STREET	**Lab Number:**	L2328582
Project Number:	Not Specified	**Report Date:**	06/06/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	127 12TH STREET	**Lab Number:**	L2328582
Project Number:	Not Specified	**Report Date:**	06/06/23

Footnotes

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

Terms

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

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

Report Format: Data Usability Report

Project Name:	127 12TH STREET	**Lab Number:**	L2328582
Project Number:	Not Specified	**Report Date:**	06/06/23

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: 127 12TH STREET
Project Number: Not Specified
Lab Number: L2328582
Report Date: 06/06/23

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

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

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

Date Rec'd in Lab: 5/23/23

ALPHA Job #: L2328582

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

Client Information

Client: TENEN ENVIRONMENTAL
Address: NEW YORK, NY
Phone:
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 127 12TH STREET
Project Location: BKLYN, NY
Project #:
Project Manager: M. AHMED/M. CARROLL
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: CLOSE SOG

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
28582-01	SV-1	5/22/23	1000	1800	30.24	4.99	SV	VC	2.7L	234	1281	X					
-02	SV-2	5/22/23	1000	1800	30.09	5.35				2596	01282	X					
-03	SV-3	5/22/23	1000	1800	30.29	5.40				336	01624	X					
-04	SV-4	5/22/23	1000	1800	30.06	6.32				471	0541	X					
-05	SV-5	5/22/23	1006	1806	30.68	8.34				2276	0410	X					
-06	IA-1	5/22/23	1000	1845	30.74	9.87	AA-INDOOR			461	01585	X					
-07	AA-1	5/22/23	1000	1800	29.96	5.93	AA-OUTDOOR			239	0616	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type: SUMMA CANS

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
MPIN ALPHA	5/22/23 1900	MPIN	ALPHA 5/22/23 1900
	5/22/23 2044		5/22 2100
	5/23/23 0030		5/23/23 0030
	5/23/23 0535		5/23/23 05:35

(25-Sep-15)

ANALYTICAL REPORT

Lab Number:	L2404125
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Matthew Carroll
Phone:	(646) 606-2332
Project Name:	127 12TH ST
Project Number:	Not Specified
Report Date:	02/07/24

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

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2404125-01	TW-10 (3-5)	SOIL	BKLYN, NY	01/23/24 12:45	01/24/24
L2404125-02	TW-9 (3-5)	SOIL	BKLYN, NY	01/23/24 13:30	01/24/24
L2404125-03	SB-8S1 (1-3)	SOIL	BKLYN, NY	01/23/24 13:45	01/24/24
L2404125-04	SB-8S1 (3-5)	SOIL	BKLYN, NY	01/23/24 14:00	01/24/24
L2404125-05	SB-8S2 (1-3)	SOIL	BKLYN, NY	01/23/24 14:10	01/24/24
L2404125-06	SB-8S2 (3-5)	SOIL	BKLYN, NY	01/23/24 14:20	01/24/24
L2404125-07	SB-8E1 (1-3)	SOIL	BKLYN, NY	01/24/24 11:30	01/25/24
L2404125-08	SB-8E1 (3-5)	SOIL	BKLYN, NY	01/24/24 11:40	01/25/24
L2404125-09	SB-8E2 (1-3)	SOIL	BKLYN, NY	01/24/24 11:50	01/25/24
L2404125-10	SB-8E2 (3-5)	SOIL	BKLYN, NY	01/24/24 12:00	01/25/24
L2404125-11	SB-8W1 (1-3)	SOIL	BKLYN, NY	01/24/24 12:10	01/25/24
L2404125-12	SB-8W1 (3-5)	SOIL	BKLYN, NY	01/24/24 12:20	01/25/24
L2404125-13	SB-8W2 (1-3)	SOIL	BKLYN, NY	01/24/24 12:30	01/25/24
L2404125-14	SB-8W2 (3-5)	SOIL	BKLYN, NY	01/24/24 12:40	01/25/24
L2404125-15	SB-8N1 (1-3)	SOIL	BKLYN, NY	01/24/24 12:50	01/25/24
L2404125-16	SB-8N1 (3-5)	SOIL	BKLYN, NY	01/24/24 13:00	01/25/24
L2404125-17	SB-4S1 (1-3)	SOIL	BKLYN, NY	01/24/24 13:00	01/25/24
L2404125-18	SB-4S1 (3-5)	SOIL	BKLYN, NY	01/24/24 13:10	01/25/24
L2404125-19	SB-4S2 (1-3)	SOIL	BKLYN, NY	01/24/24 13:20	01/25/24
L2404125-20	SB-4S2 (3-5)	SOIL	BKLYN, NY	01/24/24 13:30	01/25/24
L2404125-21	SB-4W1 (1-3)	SOIL	BKLYN, NY	01/24/24 13:40	01/25/24
L2404125-22	SB-4W1 (3-5)	SOIL	BKLYN, NY	01/24/24 13:50	01/25/24
L2404125-23	SB-4W2 (1-3)	SOIL	BKLYN, NY	01/24/24 14:00	01/25/24
L2404125-24	SB-4W2 (3-5)	SOIL	BKLYN, NY	01/24/24 14:10	01/25/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2404125-25	SB-4N1 (1-3)	SOIL	BKLYN, NY	01/24/24 14:20	01/25/24
L2404125-26	SB-4N1 (3-5)	SOIL	BKLYN, NY	01/24/24 14:30	01/25/24

Project Name:	127 12TH ST	**Lab Number:**	L2404125
Project Number:	Not Specified	**Report Date:**	02/07/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	127 12TH ST	**Lab Number:**	L2404125
Project Number:	Not Specified	**Report Date:**	02/07/24

Case Narrative (continued)

Report Submission

February 07, 2024: This final report includes the results of the following analyses:

L2404125-24: Volatile Organics

February 05, 2024: This preliminary report includes the results of the following analyses:

L2404125-18, -22, -23, and -26: Volatile Organics

January 31, 2024: This is a preliminary report.

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

Sample Receipt

L2404125-02: The sample identified as "TW-9 (3-5)" on the chain of custody was identified as "TW-9 (1-3)" on the container label. At the client's request, the sample is reported as "TW-9 (3-5)".

L2404125-23: The collection date and time on the chain of custody was 24-JAN-24 14:00; however, the collection date/time on the container label was 24-JAN-24 14:10. At the client's request, the collection date/time is reported as 24-JAN-24 14:00.

L2404125-24: The collection date and time on the chain of custody was 24-JAN-24 14:10; however, the collection date/time on the container label was 24-JAN-24 14:20. At the client's request, the collection date/time is reported as 24-JAN-24 14:10.

Volatile Organics

The WG1879725-5 Method Blank, associated with L2404125-07, -11, -15, and -17, has a concentration above the reporting limit for chloroform. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Case Narrative (continued)

The WG1879728-5 Method Blank, associated with L2404125-21 and -25, has a concentration above the reporting limit for chloroform. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

The WG1882473-5 Method Blank, associated with L2404125-24, has a concentration above the reporting limit for bromomethane. Since the associated sample concentration is non-detect to the RL for this target analyte, no corrective action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/07/24

ORGANICS

VOLATILES

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-01
Client ID: TW-10 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/23/24 12:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:30
Analyst: MKS
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	430	200	1
1,1-Dichloroethane	ND		ug/kg	86	12.	1
Chloroform	ND		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	86	20.	1
1,2-Dichloropropane	ND		ug/kg	86	11.	1
Dibromochloromethane	ND		ug/kg	86	12.	1
1,1,2-Trichloroethane	ND		ug/kg	86	23.	1
Tetrachloroethene	340		ug/kg	43	17.	1
Chlorobenzene	18	J	ug/kg	43	11.	1
Trichlorofluoromethane	ND		ug/kg	340	60.	1
1,2-Dichloroethane	ND		ug/kg	86	22.	1
1,1,1-Trichloroethane	ND		ug/kg	43	14.	1
Bromodichloromethane	ND		ug/kg	43	9.4	1
trans-1,3-Dichloropropene	ND		ug/kg	86	24.	1
cis-1,3-Dichloropropene	ND		ug/kg	43	14.	1
1,3-Dichloropropene, Total	ND		ug/kg	43	14.	1
1,1-Dichloropropene	ND		ug/kg	43	14.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	43	14.	1
Benzene	ND		ug/kg	43	14.	1
Toluene	86		ug/kg	86	47.	1
Ethylbenzene	130		ug/kg	86	12.	1
Chloromethane	ND		ug/kg	340	80.	1
Bromomethane	ND		ug/kg	170	50.	1
Vinyl chloride	300		ug/kg	86	29.	1
Chloroethane	ND		ug/kg	170	39.	1
1,1-Dichloroethene	53	J	ug/kg	86	20.	1
trans-1,2-Dichloroethene	30	J	ug/kg	130	12.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-01
Client ID: TW-10 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/23/24 12:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	120		ug/kg	43	12.	1
1,2-Dichlorobenzene	ND		ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	13.	1
1,4-Dichlorobenzene	15	J	ug/kg	170	15.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	460		ug/kg	170	48.	1
o-Xylene	280		ug/kg	86	25.	1
Xylenes, Total	740		ug/kg	86	25.	1
cis-1,2-Dichloroethene	2500		ug/kg	86	15.	1
1,2-Dichloroethene, Total	2500	J	ug/kg	86	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	86	17.	1
Dichlorodifluoromethane	ND		ug/kg	860	79.	1
Acetone	ND		ug/kg	860	410	1
Carbon disulfide	ND		ug/kg	860	390	1
2-Butanone	ND		ug/kg	860	190	1
Vinyl acetate	ND		ug/kg	860	180	1
4-Methyl-2-pentanone	ND		ug/kg	860	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	860	100	1
Bromochloromethane	ND		ug/kg	170	18.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	86	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	43	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	150		ug/kg	86	14.	1
sec-Butylbenzene	520		ug/kg	86	12.	1
tert-Butylbenzene	30	J	ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	260	86.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	590		ug/kg	86	9.4	1
p-Isopropyltoluene	38	J	ug/kg	86	9.4	1
Naphthalene	320	J	ug/kg	340	56.	1
Acrylonitrile	ND		ug/kg	340	99.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-01
Client ID: TW-10 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/23/24 12:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	900		ug/kg	86	15.	1
1,2,3-Trichlorobenzene	30	J	ug/kg	170	28.	1
1,2,4-Trichlorobenzene	23	J	ug/kg	170	23.	1
1,3,5-Trimethylbenzene	760		ug/kg	170	17.	1
1,2,4-Trimethylbenzene	1600		ug/kg	170	29.	1
1,4-Dioxane	ND		ug/kg	6900	3000	1
p-Diethylbenzene	9300		ug/kg	170	15.	1
p-Ethyltoluene	1500		ug/kg	170	33.	1
1,2,4,5-Tetramethylbenzene	2500		ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	430	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	94		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-03
Client ID: SB-8S1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/26/24 11:05
Analyst: MKS
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	1.2		ug/kg	0.75	0.30	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	ND		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-03
Client ID: SB-8S1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.75	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.9	1
2-Butanone	ND		ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-03
Client ID: SB-8S1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	2.1	1

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

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-07
Client ID: SB-8E1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 11:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/29/24 15:42
Analyst: JIC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	13		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-07
Client ID: SB-8E1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 11:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-07
Client ID: SB-8E1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 11:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	110	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	94		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-11
Client ID: SB-8W1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 12:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/29/24 16:08
Analyst: JIC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	37		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.95	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.23	1
Benzene	ND		ug/kg	0.68	0.23	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.7	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-11
Client ID: SB-8W1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 12:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.26	J	ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.28	1
p/m-Xylene	ND		ug/kg	2.7	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	11	J	ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.89	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-11
Client ID: SB-8W1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 12:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.46	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-15
Client ID: SB-8N1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 12:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/29/24 16:34
Analyst: JIC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	69		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-15
Client ID: SB-8N1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 12:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.34	J	ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	8.0	J	ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-15
Client ID: SB-8N1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 12:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-17
Client ID: SB-4S1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/29/24 17:00
Analyst: JIC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	2.9		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-17
Client ID: SB-4S1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-17
Client ID: SB-4S1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	97	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-18
Client ID: SB-4S1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/03/24 15:32
Analyst: KJD
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	220		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.83	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-18
Client ID: SB-4S1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.39	J	ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	0.64	J	ug/kg	1.2	0.35	1
Xylenes, Total	0.64	J	ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	2.5	J	ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-18
Client ID: SB-4S1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-21
Client ID: SB-4W1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:40
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/29/24 17:26
Analyst: JIC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	370	170	1
1,1-Dichloroethane	ND		ug/kg	74	11.	1
Chloroform	24	JB	ug/kg	110	10.	1
Carbon tetrachloride	ND		ug/kg	74	17.	1
1,2-Dichloropropane	ND		ug/kg	74	9.2	1
Dibromochloromethane	ND		ug/kg	74	10.	1
1,1,2-Trichloroethane	ND		ug/kg	74	20.	1
Tetrachloroethene	45000	E	ug/kg	37	14.	1
Chlorobenzene	ND		ug/kg	37	9.3	1
Trichlorofluoromethane	ND		ug/kg	290	51.	1
1,2-Dichloroethane	ND		ug/kg	74	19.	1
1,1,1-Trichloroethane	ND		ug/kg	37	12.	1
Bromodichloromethane	ND		ug/kg	37	8.0	1
trans-1,3-Dichloropropene	ND		ug/kg	74	20.	1
cis-1,3-Dichloropropene	ND		ug/kg	37	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	37	12.	1
1,1-Dichloropropene	ND		ug/kg	37	12.	1
Bromoform	ND		ug/kg	290	18.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	37	12.	1
Benzene	ND		ug/kg	37	12.	1
Toluene	ND		ug/kg	74	40.	1
Ethylbenzene	ND		ug/kg	74	10.	1
Chloromethane	ND		ug/kg	290	69.	1
Bromomethane	ND		ug/kg	150	43.	1
Vinyl chloride	ND		ug/kg	74	25.	1
Chloroethane	ND		ug/kg	150	33.	1
1,1-Dichloroethene	ND		ug/kg	74	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	10.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-21
Client ID: SB-4W1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:40
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	120		ug/kg	37	10.	1
1,2-Dichlorobenzene	ND		ug/kg	150	10.	1
1,3-Dichlorobenzene	ND		ug/kg	150	11.	1
1,4-Dichlorobenzene	ND		ug/kg	150	12.	1
Methyl tert butyl ether	ND		ug/kg	150	15.	1
p/m-Xylene	ND		ug/kg	150	41.	1
o-Xylene	ND		ug/kg	74	21.	1
Xylenes, Total	ND		ug/kg	74	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	74	13.	1
1,2-Dichloroethene, Total	ND		ug/kg	74	10.	1
Dibromomethane	ND		ug/kg	150	18.	1
Styrene	ND		ug/kg	74	14.	1
Dichlorodifluoromethane	ND		ug/kg	740	67.	1
Acetone	ND		ug/kg	740	350	1
Carbon disulfide	ND		ug/kg	740	330	1
2-Butanone	ND		ug/kg	740	160	1
Vinyl acetate	ND		ug/kg	740	160	1
4-Methyl-2-pentanone	ND		ug/kg	740	94.	1
1,2,3-Trichloropropane	ND		ug/kg	150	9.3	1
2-Hexanone	ND		ug/kg	740	87.	1
Bromochloromethane	ND		ug/kg	150	15.	1
2,2-Dichloropropane	ND		ug/kg	150	15.	1
1,2-Dibromoethane	ND		ug/kg	74	20.	1
1,3-Dichloropropane	ND		ug/kg	150	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	37	9.7	1
Bromobenzene	ND		ug/kg	150	11.	1
n-Butylbenzene	ND		ug/kg	74	12.	1
sec-Butylbenzene	ND		ug/kg	74	11.	1
tert-Butylbenzene	ND		ug/kg	150	8.7	1
o-Chlorotoluene	ND		ug/kg	150	14.	1
p-Chlorotoluene	ND		ug/kg	150	7.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	220	73.	1
Hexachlorobutadiene	ND		ug/kg	290	12.	1
Isopropylbenzene	ND		ug/kg	74	8.0	1
p-Isopropyltoluene	ND		ug/kg	74	8.0	1
Naphthalene	ND		ug/kg	290	48.	1
Acrylonitrile	ND		ug/kg	290	85.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-21
Client ID: SB-4W1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:40
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	74	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	150	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	150	20.	1
1,3,5-Trimethylbenzene	ND		ug/kg	150	14.	1
1,2,4-Trimethylbenzene	ND		ug/kg	150	24.	1
1,4-Dioxane	ND		ug/kg	5900	2600	1
p-Diethylbenzene	ND		ug/kg	150	13.	1
p-Ethyltoluene	ND		ug/kg	150	28.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	150	14.	1
Ethyl ether	ND		ug/kg	150	25.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	370	100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	90		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-21 D
Client ID: SB-4W1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:40
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/30/24 17:59
Analyst: JIC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	47000		ug/kg	370	140	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	102		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-22
Client ID: SB-4W1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/05/24 11:17
Analyst: AJK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	380	170	1
1,1-Dichloroethane	ND		ug/kg	76	11.	1
Chloroform	32	J	ug/kg	110	11.	1
Carbon tetrachloride	ND		ug/kg	76	18.	1
1,2-Dichloropropane	ND		ug/kg	76	9.5	1
Dibromochloromethane	ND		ug/kg	76	11.	1
1,1,2-Trichloroethane	ND		ug/kg	76	20.	1
Tetrachloroethene	47000	E	ug/kg	38	15.	1
Chlorobenzene	ND		ug/kg	38	9.7	1
Trichlorofluoromethane	ND		ug/kg	300	53.	1
1,2-Dichloroethane	ND		ug/kg	76	20.	1
1,1,1-Trichloroethane	ND		ug/kg	38	13.	1
Bromodichloromethane	ND		ug/kg	38	8.3	1
trans-1,3-Dichloropropene	ND		ug/kg	76	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	38	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	38	12.	1
1,1-Dichloropropene	ND		ug/kg	38	12.	1
Bromoform	ND		ug/kg	300	19.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	38	13.	1
Benzene	ND		ug/kg	38	13.	1
Toluene	ND		ug/kg	76	41.	1
Ethylbenzene	ND		ug/kg	76	11.	1
Chloromethane	ND		ug/kg	300	71.	1
Bromomethane	ND		ug/kg	150	44.	1
Vinyl chloride	ND		ug/kg	76	26.	1
Chloroethane	ND		ug/kg	150	34.	1
1,1-Dichloroethene	ND		ug/kg	76	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	10.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-22
Client ID: SB-4W1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	130		ug/kg	38	10.	1
1,2-Dichlorobenzene	ND		ug/kg	150	11.	1
1,3-Dichlorobenzene	ND		ug/kg	150	11.	1
1,4-Dichlorobenzene	ND		ug/kg	150	13.	1
Methyl tert butyl ether	ND		ug/kg	150	15.	1
p/m-Xylene	ND		ug/kg	150	43.	1
o-Xylene	ND		ug/kg	76	22.	1
Xylenes, Total	ND		ug/kg	76	22.	1
cis-1,2-Dichloroethene	17	J	ug/kg	76	13.	1
1,2-Dichloroethene, Total	17	J	ug/kg	76	10.	1
Dibromomethane	ND		ug/kg	150	18.	1
Styrene	ND		ug/kg	76	15.	1
Dichlorodifluoromethane	ND		ug/kg	760	70.	1
Acetone	ND		ug/kg	760	370	1
Carbon disulfide	ND		ug/kg	760	350	1
2-Butanone	ND		ug/kg	760	170	1
Vinyl acetate	ND		ug/kg	760	160	1
4-Methyl-2-pentanone	ND		ug/kg	760	98.	1
1,2,3-Trichloropropane	ND		ug/kg	150	9.7	1
2-Hexanone	ND		ug/kg	760	90.	1
Bromochloromethane	ND		ug/kg	150	16.	1
2,2-Dichloropropane	ND		ug/kg	150	15.	1
1,2-Dibromoethane	ND		ug/kg	76	21.	1
1,3-Dichloropropane	ND		ug/kg	150	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	38	10.	1
Bromobenzene	ND		ug/kg	150	11.	1
n-Butylbenzene	ND		ug/kg	76	13.	1
sec-Butylbenzene	ND		ug/kg	76	11.	1
tert-Butylbenzene	ND		ug/kg	150	9.0	1
o-Chlorotoluene	ND		ug/kg	150	14.	1
p-Chlorotoluene	ND		ug/kg	150	8.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	76.	1
Hexachlorobutadiene	ND		ug/kg	300	13.	1
Isopropylbenzene	ND		ug/kg	76	8.3	1
p-Isopropyltoluene	ND		ug/kg	76	8.3	1
Naphthalene	ND		ug/kg	300	50.	1
Acrylonitrile	ND		ug/kg	300	88.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-22
Client ID: SB-4W1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 13:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	76	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	150	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	150	21.	1
1,3,5-Trimethylbenzene	ND		ug/kg	150	15.	1
1,2,4-Trimethylbenzene	ND		ug/kg	150	25.	1
1,4-Dioxane	ND		ug/kg	6100	2700	1
p-Diethylbenzene	ND		ug/kg	150	14.	1
p-Ethyltoluene	ND		ug/kg	150	29.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	150	14.	1
Ethyl ether	ND		ug/kg	150	26.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	380	110	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-22 D
Client ID: SB-4W1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/03/24 15:59
Analyst: KJD
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	43000		ug/kg	150	60.	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-23
Client ID: SB-4W2 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/03/24 16:25
Analyst: KJD
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	19		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-23
Client ID: SB-4W2 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-23
Client ID: SB-4W2 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	119		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-24
Client ID: SB-4W2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/06/24 22:49
Analyst: AJK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	18		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-24
Client ID: SB-4W2 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-24
Client ID: SB-4W2 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	116		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-25
Client ID: SB-4N1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:20
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/29/24 17:52
Analyst: JIC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	390	180	1
1,1-Dichloroethane	ND		ug/kg	78	11.	1
Chloroform	18	JB	ug/kg	120	11.	1
Carbon tetrachloride	ND		ug/kg	78	18.	1
1,2-Dichloropropane	ND		ug/kg	78	9.8	1
Dibromochloromethane	ND		ug/kg	78	11.	1
1,1,2-Trichloroethane	ND		ug/kg	78	21.	1
Tetrachloroethene	26000	E	ug/kg	39	15.	1
Chlorobenzene	ND		ug/kg	39	9.9	1
Trichlorofluoromethane	ND		ug/kg	310	54.	1
1,2-Dichloroethane	ND		ug/kg	78	20.	1
1,1,1-Trichloroethane	ND		ug/kg	39	13.	1
Bromodichloromethane	ND		ug/kg	39	8.5	1
trans-1,3-Dichloropropene	ND		ug/kg	78	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	39	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	39	12.	1
1,1-Dichloropropene	ND		ug/kg	39	12.	1
Bromoform	ND		ug/kg	310	19.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	39	13.	1
Benzene	ND		ug/kg	39	13.	1
Toluene	ND		ug/kg	78	42.	1
Ethylbenzene	ND		ug/kg	78	11.	1
Chloromethane	ND		ug/kg	310	73.	1
Bromomethane	ND		ug/kg	160	45.	1
Vinyl chloride	ND		ug/kg	78	26.	1
Chloroethane	ND		ug/kg	160	35.	1
1,1-Dichloroethene	ND		ug/kg	78	19.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-25
Client ID: SB-4N1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:20
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	41		ug/kg	39	11.	1
1,2-Dichlorobenzene	ND		ug/kg	160	11.	1
1,3-Dichlorobenzene	ND		ug/kg	160	12.	1
1,4-Dichlorobenzene	ND		ug/kg	160	13.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	ND		ug/kg	160	44.	1
o-Xylene	ND		ug/kg	78	23.	1
Xylenes, Total	ND		ug/kg	78	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	78	14.	1
1,2-Dichloroethene, Total	ND		ug/kg	78	11.	1
Dibromomethane	ND		ug/kg	160	19.	1
Styrene	ND		ug/kg	78	15.	1
Dichlorodifluoromethane	ND		ug/kg	780	72.	1
Acetone	ND		ug/kg	780	380	1
Carbon disulfide	ND		ug/kg	780	360	1
2-Butanone	ND		ug/kg	780	170	1
Vinyl acetate	ND		ug/kg	780	170	1
4-Methyl-2-pentanone	ND		ug/kg	780	100	1
1,2,3-Trichloropropane	ND		ug/kg	160	9.9	1
2-Hexanone	ND		ug/kg	780	92.	1
Bromochloromethane	ND		ug/kg	160	16.	1
2,2-Dichloropropane	ND		ug/kg	160	16.	1
1,2-Dibromoethane	ND		ug/kg	78	22.	1
1,3-Dichloropropane	ND		ug/kg	160	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	39	10.	1
Bromobenzene	ND		ug/kg	160	11.	1
n-Butylbenzene	ND		ug/kg	78	13.	1
sec-Butylbenzene	ND		ug/kg	78	11.	1
tert-Butylbenzene	ND		ug/kg	160	9.2	1
o-Chlorotoluene	ND		ug/kg	160	15.	1
p-Chlorotoluene	ND		ug/kg	160	8.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	78.	1
Hexachlorobutadiene	ND		ug/kg	310	13.	1
Isopropylbenzene	ND		ug/kg	78	8.5	1
p-Isopropyltoluene	ND		ug/kg	78	8.5	1
Naphthalene	ND		ug/kg	310	51.	1
Acrylonitrile	ND		ug/kg	310	90.	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-25
Client ID: SB-4N1 (1-3)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:20
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	78	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	21.	1
1,3,5-Trimethylbenzene	ND		ug/kg	160	15.	1
1,2,4-Trimethylbenzene	ND		ug/kg	160	26.	1
1,4-Dioxane	ND		ug/kg	6200	2700	1
p-Diethylbenzene	ND		ug/kg	160	14.	1
p-Ethyltoluene	ND		ug/kg	160	30.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	160	15.	1
Ethyl ether	ND		ug/kg	160	27.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	390	110	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	91		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-25 D
Client ID: SB-4N1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:20
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 01/30/24 18:20
Analyst: JIC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	32000		ug/kg	200	77.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	102		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-26
Client ID: SB-4N1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/03/24 16:52
Analyst: KJD
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	15		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Benzene	ND		ug/kg	0.65	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-26
Client ID: SB-4N1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.84	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-26
Client ID: SB-4N1 (3-5)
Sample Location: BKLYN, NY
Date Collected: 01/24/24 14:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	112		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1879228-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.23	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1879228-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1879228-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	97		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1879229-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	11	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1879229-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/26/24 09:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1879229-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	97		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/29/24 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,11,15,17 Batch: WG1879725-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	1.6		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	1.4	J	ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/29/24 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,11,15,17 Batch: WG1879725-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/29/24 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07,11,15,17 Batch: WG1879725-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	91		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/29/24 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 21,25 Batch: WG1879728-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	79		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	68	J	ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/29/24 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 21,25 Batch: WG1879728-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/29/24 10:05
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 21,25 Batch: WG1879728-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	91		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/30/24 15:34
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 21,25 Batch: WG1880028-5					
Tetrachloroethene	ND		ug/kg	25	9.8
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	107		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/24 11:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,23,26 Batch: WG1881510-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.58	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/24 11:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,23,26 Batch: WG1881510-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.34	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/24 11:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 18,23,26 Batch: WG1881510-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/24 11:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22 Batch: WG1881513-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	29	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/24 11:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22 Batch: WG1881513-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	17	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/03/24 11:28
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22 Batch: WG1881513-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/05/24 09:59
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22 Batch: WG1881724-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/05/24 09:59
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22 Batch: WG1881724-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/05/24 09:59
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22 Batch: WG1881724-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	114		70-130

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/06/24 22:22
Analyst: SLS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1882473-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.2		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/06/24 22:22
Analyst: SLS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1882473-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 127 12TH ST
Project Number: Not Specified
Lab Number: L2404125
Report Date: 02/07/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/06/24 22:22
Analyst: SLS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1882473-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1879228-3 WG1879228-4								
Methylene chloride	81		79		70-130	3		30
1,1-Dichloroethane	97		94		70-130	3		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	80		79		70-130	1		30
1,2-Dichloropropane	98		99		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	94		94		70-130	0		30
Tetrachloroethene	89		88		70-130	1		30
Chlorobenzene	97		96		70-130	1		30
Trichlorofluoromethane	75		71		70-139	5		30
1,2-Dichloroethane	82		84		70-130	2		30
1,1,1-Trichloroethane	84		82		70-130	2		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	99		99		70-130	0		30
cis-1,3-Dichloropropene	102		104		70-130	2		30
1,1-Dichloropropene	89		88		70-130	1		30
Bromoform	92		93		70-130	1		30
1,1,2,2-Tetrachloroethane	92		93		70-130	1		30
Benzene	100		98		70-130	2		30
Toluene	98		96		70-130	2		30
Ethylbenzene	97		95		70-130	2		30
Chloromethane	99		91		52-130	8		30
Bromomethane	65		61		57-147	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1879228-3 WG1879228-4								
Vinyl chloride	83		78		67-130	6		30
Chloroethane	78		73		50-151	7		30
1,1-Dichloroethene	87		82		65-135	6		30
trans-1,2-Dichloroethene	97		92		70-130	5		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	96		95		70-130	1		30
1,4-Dichlorobenzene	94		94		70-130	0		30
Methyl tert butyl ether	96		96		66-130	0		30
p/m-Xylene	99		97		70-130	2		30
o-Xylene	95		94		70-130	1		30
cis-1,2-Dichloroethene	91		89		70-130	2		30
Dibromomethane	87		88		70-130	1		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	64		60		30-146	6		30
Acetone	76		75		54-140	1		30
Carbon disulfide	98		92		59-130	6		30
2-Butanone	92		94		70-130	2		30
Vinyl acetate	90		85		70-130	6		30
4-Methyl-2-pentanone	95		98		70-130	3		30
1,2,3-Trichloropropane	87		90		68-130	3		30
2-Hexanone	92		93		70-130	1		30
Bromochloromethane	91		91		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1879228-3 WG1879228-4								
2,2-Dichloropropane	98		95		70-130	3		30
1,2-Dibromoethane	86		87		70-130	1		30
1,3-Dichloropropane	96		97		69-130	1		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	101		99		70-130	2		30
sec-Butylbenzene	98		97		70-130	1		30
tert-Butylbenzene	96		95		70-130	1		30
o-Chlorotoluene	95		93		70-130	2		30
p-Chlorotoluene	95		93		70-130	2		30
1,2-Dibromo-3-chloropropane	92		95		68-130	3		30
Hexachlorobutadiene	95		94		67-130	1		30
Isopropylbenzene	97		96		70-130	1		30
p-Isopropyltoluene	99		99		70-130	0		30
Naphthalene	100		102		70-130	2		30
Acrylonitrile	98		98		70-130	0		30
n-Propylbenzene	100		98		70-130	2		30
1,2,3-Trichlorobenzene	101		104		70-130	3		30
1,2,4-Trichlorobenzene	103		104		70-130	1		30
1,3,5-Trimethylbenzene	95		94		70-130	1		30
1,2,4-Trimethylbenzene	96		95		70-130	1		30
1,4-Dioxane	94		96		65-136	2		30
p-Diethylbenzene	102		100		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1879228-3 WG1879228-4								
p-Ethyltoluene	100		98		70-130	2		30
1,2,4,5-Tetramethylbenzene	99		98		70-130	1		30
Ethyl ether	102		97		67-130	5		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		88		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	94		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1879229-3 WG1879229-4								
Methylene chloride	81		79		70-130	3		30
1,1-Dichloroethane	97		94		70-130	3		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	80		79		70-130	1		30
1,2-Dichloropropane	98		99		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	94		94		70-130	0		30
Tetrachloroethene	89		88		70-130	1		30
Chlorobenzene	97		96		70-130	1		30
Trichlorofluoromethane	75		71		70-139	5		30
1,2-Dichloroethane	82		84		70-130	2		30
1,1,1-Trichloroethane	84		82		70-130	2		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	99		99		70-130	0		30
cis-1,3-Dichloropropene	102		104		70-130	2		30
1,1-Dichloropropene	89		88		70-130	1		30
Bromoform	92		93		70-130	1		30
1,1,2,2-Tetrachloroethane	92		93		70-130	1		30
Benzene	100		98		70-130	2		30
Toluene	98		96		70-130	2		30
Ethylbenzene	97		95		70-130	2		30
Chloromethane	99		91		52-130	8		30
Bromomethane	65		61		57-147	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1879229-3 WG1879229-4								
Vinyl chloride	83		78		67-130	6		30
Chloroethane	78		73		50-151	7		30
1,1-Dichloroethene	87		82		65-135	6		30
trans-1,2-Dichloroethene	97		92		70-130	5		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	96		95		70-130	1		30
1,4-Dichlorobenzene	94		94		70-130	0		30
Methyl tert butyl ether	96		96		66-130	0		30
p/m-Xylene	99		97		70-130	2		30
o-Xylene	95		94		70-130	1		30
cis-1,2-Dichloroethene	91		89		70-130	2		30
Dibromomethane	87		88		70-130	1		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	64		60		30-146	6		30
Acetone	76		75		54-140	1		30
Carbon disulfide	98		92		59-130	6		30
2-Butanone	92		94		70-130	2		30
Vinyl acetate	90		85		70-130	6		30
4-Methyl-2-pentanone	95		98		70-130	3		30
1,2,3-Trichloropropane	87		90		68-130	3		30
2-Hexanone	92		93		70-130	1		30
Bromochloromethane	91		91		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1879229-3 WG1879229-4								
2,2-Dichloropropane	98		95		70-130	3		30
1,2-Dibromoethane	86		87		70-130	1		30
1,3-Dichloropropane	96		97		69-130	1		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	101		99		70-130	2		30
sec-Butylbenzene	98		97		70-130	1		30
tert-Butylbenzene	96		95		70-130	1		30
o-Chlorotoluene	95		93		70-130	2		30
p-Chlorotoluene	95		93		70-130	2		30
1,2-Dibromo-3-chloropropane	92		95		68-130	3		30
Hexachlorobutadiene	95		94		67-130	1		30
Isopropylbenzene	97		96		70-130	1		30
p-Isopropyltoluene	99		99		70-130	0		30
Naphthalene	100		102		70-130	2		30
Acrylonitrile	98		98		70-130	0		30
n-Propylbenzene	100		98		70-130	2		30
1,2,3-Trichlorobenzene	101		104		70-130	3		30
1,2,4-Trichlorobenzene	103		104		70-130	1		30
1,3,5-Trimethylbenzene	95		94		70-130	1		30
1,2,4-Trimethylbenzene	96		95		70-130	1		30
1,4-Dioxane	94		96		65-136	2		30
p-Diethylbenzene	102		100		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1879229-3 WG1879229-4								
p-Ethyltoluene	100		98		70-130	2		30
1,2,4,5-Tetramethylbenzene	99		98		70-130	1		30
Ethyl ether	102		97		67-130	5		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	85		88		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	94		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,11,15,17 Batch: WG1879725-3 WG1879725-4								
Methylene chloride	76		**65**	Q	70-130	16		30
1,1-Dichloroethane	91		76		70-130	18		30
Chloroform	87		74		70-130	16		30
Carbon tetrachloride	94		76		70-130	21		30
1,2-Dichloropropane	92		79		70-130	15		30
Dibromochloromethane	90		82		70-130	9		30
1,1,2-Trichloroethane	97		88		70-130	10		30
Tetrachloroethene	102		84		70-130	19		30
Chlorobenzene	94		81		70-130	15		30
Trichlorofluoromethane	85		**68**	Q	70-139	22		30
1,2-Dichloroethane	80		71		70-130	12		30
1,1,1-Trichloroethane	90		74		70-130	20		30
Bromodichloromethane	87		76		70-130	13		30
trans-1,3-Dichloropropene	93		84		70-130	10		30
cis-1,3-Dichloropropene	94		82		70-130	14		30
1,1-Dichloropropene	102		81		70-130	23		30
Bromoform	92		86		70-130	7		30
1,1,2,2-Tetrachloroethane	102		98		70-130	4		30
Benzene	97		81		70-130	18		30
Toluene	99		83		70-130	18		30
Ethylbenzene	98		82		70-130	18		30
Chloromethane	100		74		52-130	30		30
Bromomethane	**31**	Q	**28**	Q	57-147	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,11,15,17 Batch: WG1879725-3 WG1879725-4								
Vinyl chloride	93		72		67-130	25		30
Chloroethane	110		87		50-151	23		30
1,1-Dichloroethene	95		75		65-135	24		30
trans-1,2-Dichloroethene	94		77		70-130	20		30
Trichloroethene	95		79		70-130	18		30
1,2-Dichlorobenzene	94		84		70-130	11		30
1,3-Dichlorobenzene	96		84		70-130	13		30
1,4-Dichlorobenzene	93		81		70-130	14		30
Methyl tert butyl ether	84		78		66-130	7		30
p/m-Xylene	101		85		70-130	17		30
o-Xylene	97		83		70-130	16		30
cis-1,2-Dichloroethene	91		76		70-130	18		30
Dibromomethane	85		76		70-130	11		30
Styrene	100		85		70-130	16		30
Dichlorodifluoromethane	52		40		30-146	26		30
Acetone	88		66		54-140	29		30
Carbon disulfide	94		74		59-130	24		30
2-Butanone	91		81		70-130	12		30
Vinyl acetate	89		81		70-130	9		30
4-Methyl-2-pentanone	87		83		70-130	5		30
1,2,3-Trichloropropane	96		91		68-130	5		30
2-Hexanone	91		85		70-130	7		30
Bromochloromethane	82		71		70-130	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,11,15,17 Batch: WG1879725-3 WG1879725-4								
2,2-Dichloropropane	91		75		70-130	19		30
1,2-Dibromoethane	94		87		70-130	8		30
1,3-Dichloropropane	93		85		69-130	9		30
1,1,1,2-Tetrachloroethane	92		81		70-130	13		30
Bromobenzene	95		83		70-130	13		30
n-Butylbenzene	109		90		70-130	19		30
sec-Butylbenzene	108		90		70-130	18		30
tert-Butylbenzene	104		87		70-130	18		30
o-Chlorotoluene	101		85		70-130	17		30
p-Chlorotoluene	101		86		70-130	16		30
1,2-Dibromo-3-chloropropane	76		72		68-130	5		30
Hexachlorobutadiene	85		72		67-130	17		30
Isopropylbenzene	105		90		70-130	15		30
p-Isopropyltoluene	106		88		70-130	19		30
Naphthalene	96		89		70-130	8		30
Acrylonitrile	86		83		70-130	4		30
n-Propylbenzene	111		91		70-130	20		30
1,2,3-Trichlorobenzene	93		82		70-130	13		30
1,2,4-Trichlorobenzene	93		82		70-130	13		30
1,3,5-Trimethylbenzene	104		88		70-130	17		30
1,2,4-Trimethylbenzene	101		86		70-130	16		30
1,4-Dioxane	73		77		65-136	5		30
p-Diethylbenzene	106		88		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07,11,15,17 Batch: WG1879725-3 WG1879725-4								
p-Ethyltoluene	108		90		70-130	18		30
1,2,4,5-Tetramethylbenzene	102		85		70-130	18		30
Ethyl ether	95		88		67-130	8		30
trans-1,4-Dichloro-2-butene	98		93		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	102		104		70-130
4-Bromofluorobenzene	120		104		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 21,25 Batch: WG1879728-3 WG1879728-4								
Methylene chloride	76		**65**	Q	70-130	16		30
1,1-Dichloroethane	91		76		70-130	18		30
Chloroform	87		74		70-130	16		30
Carbon tetrachloride	94		76		70-130	21		30
1,2-Dichloropropane	92		79		70-130	15		30
Dibromochloromethane	90		82		70-130	9		30
1,1,2-Trichloroethane	97		88		70-130	10		30
Tetrachloroethene	102		84		70-130	19		30
Chlorobenzene	94		81		70-130	15		30
Trichlorofluoromethane	85		**68**	Q	70-139	22		30
1,2-Dichloroethane	80		71		70-130	12		30
1,1,1-Trichloroethane	90		74		70-130	20		30
Bromodichloromethane	87		76		70-130	13		30
trans-1,3-Dichloropropene	93		84		70-130	10		30
cis-1,3-Dichloropropene	94		82		70-130	14		30
1,1-Dichloropropene	102		81		70-130	23		30
Bromoform	92		86		70-130	7		30
1,1,2,2-Tetrachloroethane	102		98		70-130	4		30
Benzene	97		81		70-130	18		30
Toluene	99		83		70-130	18		30
Ethylbenzene	98		82		70-130	18		30
Chloromethane	100		74		52-130	30		30
Bromomethane	**31**	Q	**28**	Q	57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: Not Specified

Lab Number: L2404125

Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 21,25 Batch: WG1879728-3 WG1879728-4								
Vinyl chloride	93		72		67-130	25		30
Chloroethane	110		87		50-151	23		30
1,1-Dichloroethene	95		75		65-135	24		30
trans-1,2-Dichloroethene	94		77		70-130	20		30
Trichloroethene	95		79		70-130	18		30
1,2-Dichlorobenzene	94		84		70-130	11		30
1,3-Dichlorobenzene	96		84		70-130	13		30
1,4-Dichlorobenzene	93		81		70-130	14		30
Methyl tert butyl ether	84		78		66-130	7		30
p/m-Xylene	101		85		70-130	17		30
o-Xylene	97		83		70-130	16		30
cis-1,2-Dichloroethene	91		76		70-130	18		30
Dibromomethane	85		76		70-130	11		30
Styrene	100		85		70-130	16		30
Dichlorodifluoromethane	52		40		30-146	26		30
Acetone	88		66		54-140	29		30
Carbon disulfide	94		74		59-130	24		30
2-Butanone	91		81		70-130	12		30
Vinyl acetate	89		81		70-130	9		30
4-Methyl-2-pentanone	87		83		70-130	5		30
1,2,3-Trichloropropane	96		91		68-130	5		30
2-Hexanone	91		85		70-130	7		30
Bromochloromethane	82		71		70-130	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 21,25 Batch: WG1879728-3 WG1879728-4								
2,2-Dichloropropane	91		75		70-130	19		30
1,2-Dibromoethane	94		87		70-130	8		30
1,3-Dichloropropane	93		85		69-130	9		30
1,1,1,2-Tetrachloroethane	92		81		70-130	13		30
Bromobenzene	95		83		70-130	13		30
n-Butylbenzene	109		90		70-130	19		30
sec-Butylbenzene	108		90		70-130	18		30
tert-Butylbenzene	104		87		70-130	18		30
o-Chlorotoluene	101		85		70-130	17		30
p-Chlorotoluene	101		86		70-130	16		30
1,2-Dibromo-3-chloropropane	76		72		68-130	5		30
Hexachlorobutadiene	85		72		67-130	17		30
Isopropylbenzene	105		90		70-130	15		30
p-Isopropyltoluene	106		88		70-130	19		30
Naphthalene	96		89		70-130	8		30
Acrylonitrile	86		83		70-130	4		30
n-Propylbenzene	111		91		70-130	20		30
1,2,3-Trichlorobenzene	93		82		70-130	13		30
1,2,4-Trichlorobenzene	93		82		70-130	13		30
1,3,5-Trimethylbenzene	104		88		70-130	17		30
1,2,4-Trimethylbenzene	101		86		70-130	16		30
1,4-Dioxane	73		77		65-136	5		30
p-Diethylbenzene	106		88		70-130	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 21,25 Batch: WG1879728-3 WG1879728-4								
p-Ethyltoluene	108		90		70-130	18		30
1,2,4,5-Tetramethylbenzene	102		85		70-130	18		30
Ethyl ether	95		88		67-130	8		30
trans-1,4-Dichloro-2-butene	98		93		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	102		104		70-130
4-Bromofluorobenzene	120		104		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 21,25 Batch: WG1880028-3 WG1880028-4								
Tetrachloroethene	98		94		70-130	4		30
Benzene	87		86		70-130	1		30
Toluene	83		79		70-130	5		30
Ethylbenzene	84		81		70-130	4		30
Methyl tert butyl ether	87		86		66-130	1		30
p/m-Xylene	89		85		70-130	5		30
o-Xylene	89		85		70-130	5		30
n-Butylbenzene	86		81		70-130	6		30
sec-Butylbenzene	87		83		70-130	5		30
tert-Butylbenzene	85		82		70-130	4		30
Isopropylbenzene	84		80		70-130	5		30
p-Isopropyltoluene	89		85		70-130	5		30
Naphthalene	87		85		70-130	2		30
n-Propylbenzene	82		78		70-130	5		30
1,3,5-Trimethylbenzene	83		78		70-130	6		30
1,2,4-Trimethylbenzene	83		79		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	87		89		70-130
Dibromofluoromethane	103		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,23,26 Batch: WG1881510-3 WG1881510-4								
Methylene chloride	96		94		70-130	2		30
1,1-Dichloroethane	102		99		70-130	3		30
Chloroform	107		104		70-130	3		30
Carbon tetrachloride	120		115		70-130	4		30
1,2-Dichloropropane	98		96		70-130	2		30
Dibromochloromethane	113		112		70-130	1		30
1,1,2-Trichloroethane	97		98		70-130	1		30
Tetrachloroethene	118		114		70-130	3		30
Chlorobenzene	106		103		70-130	3		30
Trichlorofluoromethane	**67**	Q	**65**	Q	70-139	3		30
1,2-Dichloroethane	99		98		70-130	1		30
1,1,1-Trichloroethane	114		110		70-130	4		30
Bromodichloromethane	107		107		70-130	0		30
trans-1,3-Dichloropropene	97		95		70-130	2		30
cis-1,3-Dichloropropene	109		107		70-130	2		30
1,1-Dichloropropene	106		101		70-130	5		30
Bromoform	95		97		70-130	2		30
1,1,2,2-Tetrachloroethane	88		92		70-130	4		30
Benzene	104		100		70-130	4		30
Toluene	102		97		70-130	5		30
Ethylbenzene	100		96		70-130	4		30
Chloromethane	102		95		52-130	7		30
Bromomethane	61		59		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,23,26 Batch: WG1881510-3 WG1881510-4								
Vinyl chloride	75		71		67-130	5		30
Chloroethane	61		59		50-151	3		30
1,1-Dichloroethene	65		**63**	Q	65-135	3		30
trans-1,2-Dichloroethene	108		104		70-130	4		30
Trichloroethene	102		99		70-130	3		30
1,2-Dichlorobenzene	103		102		70-130	1		30
1,3-Dichlorobenzene	105		103		70-130	2		30
1,4-Dichlorobenzene	103		101		70-130	2		30
Methyl tert butyl ether	96		98		66-130	2		30
p/m-Xylene	106		102		70-130	4		30
o-Xylene	94		91		70-130	3		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Dibromomethane	99		100		70-130	1		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	109		102		30-146	7		30
Acetone	85		85		54-140	0		30
Carbon disulfide	64		62		59-130	3		30
2-Butanone	80		86		70-130	7		30
Vinyl acetate	98		97		70-130	1		30
4-Methyl-2-pentanone	77		78		70-130	1		30
1,2,3-Trichloropropane	85		89		68-130	5		30
2-Hexanone	76		80		70-130	5		30
Bromochloromethane	113		113		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,23,26 Batch: WG1881510-3 WG1881510-4								
2,2-Dichloropropane	109		105		70-130	4		30
1,2-Dibromoethane	105		106		70-130	1		30
1,3-Dichloropropane	98		97		69-130	1		30
1,1,1,2-Tetrachloroethane	116		113		70-130	3		30
Bromobenzene	107		106		70-130	1		30
n-Butylbenzene	98		94		70-130	4		30
sec-Butylbenzene	97		94		70-130	3		30
tert-Butylbenzene	101		98		70-130	3		30
o-Chlorotoluene	99		98		70-130	1		30
p-Chlorotoluene	100		99		70-130	1		30
1,2-Dibromo-3-chloropropane	98		102		68-130	4		30
Hexachlorobutadiene	118		114		67-130	3		30
Isopropylbenzene	100		98		70-130	2		30
p-Isopropyltoluene	102		98		70-130	4		30
Naphthalene	91		94		70-130	3		30
Acrylonitrile	94		97		70-130	3		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	110		110		70-130	0		30
1,2,4-Trichlorobenzene	114		112		70-130	2		30
1,3,5-Trimethylbenzene	100		96		70-130	4		30
1,2,4-Trimethylbenzene	100		98		70-130	2		30
1,4-Dioxane	94		100		65-136	6		30
p-Diethylbenzene	100		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: Not Specified

Lab Number: L2404125

Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 18,23,26 Batch: WG1881510-3 WG1881510-4								
p-Ethyltoluene	103		100		70-130	3		30
1,2,4,5-Tetramethylbenzene	101		98		70-130	3		30
Ethyl ether	**63**	Q	**64**	Q	67-130	2		30
trans-1,4-Dichloro-2-butene	92		96		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		96		70-130
Toluene-d8	98		95		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	104		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881513-3 WG1881513-4								
Methylene chloride	96		94		70-130	2		30
1,1-Dichloroethane	102		99		70-130	3		30
Chloroform	107		104		70-130	3		30
Carbon tetrachloride	120		115		70-130	4		30
1,2-Dichloropropane	98		96		70-130	2		30
Dibromochloromethane	113		112		70-130	1		30
1,1,2-Trichloroethane	97		98		70-130	1		30
Tetrachloroethene	118		114		70-130	3		30
Chlorobenzene	106		103		70-130	3		30
Trichlorofluoromethane	**67**	Q	**65**	Q	70-139	3		30
1,2-Dichloroethane	99		98		70-130	1		30
1,1,1-Trichloroethane	114		110		70-130	4		30
Bromodichloromethane	107		107		70-130	0		30
trans-1,3-Dichloropropene	97		95		70-130	2		30
cis-1,3-Dichloropropene	109		107		70-130	2		30
1,1-Dichloropropene	106		101		70-130	5		30
Bromoform	95		97		70-130	2		30
1,1,2,2-Tetrachloroethane	88		92		70-130	4		30
Benzene	104		100		70-130	4		30
Toluene	102		97		70-130	5		30
Ethylbenzene	100		96		70-130	4		30
Chloromethane	102		95		52-130	7		30
Bromomethane	61		59		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881513-3 WG1881513-4								
Vinyl chloride	75		71		67-130	5		30
Chloroethane	61		59		50-151	3		30
1,1-Dichloroethene	65		**63**	Q	65-135	3		30
trans-1,2-Dichloroethene	108		104		70-130	4		30
Trichloroethene	102		99		70-130	3		30
1,2-Dichlorobenzene	103		102		70-130	1		30
1,3-Dichlorobenzene	105		103		70-130	2		30
1,4-Dichlorobenzene	103		101		70-130	2		30
Methyl tert butyl ether	96		98		66-130	2		30
p/m-Xylene	106		102		70-130	4		30
o-Xylene	94		91		70-130	3		30
cis-1,2-Dichloroethene	104		101		70-130	3		30
Dibromomethane	99		100		70-130	1		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	109		102		30-146	7		30
Acetone	85		85		54-140	0		30
Carbon disulfide	64		62		59-130	3		30
2-Butanone	80		86		70-130	7		30
Vinyl acetate	98		97		70-130	1		30
4-Methyl-2-pentanone	77		78		70-130	1		30
1,2,3-Trichloropropane	85		89		68-130	5		30
2-Hexanone	76		80		70-130	5		30
Bromochloromethane	113		113		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881513-3 WG1881513-4								
2,2-Dichloropropane	109		105		70-130	4		30
1,2-Dibromoethane	105		106		70-130	1		30
1,3-Dichloropropane	98		97		69-130	1		30
1,1,1,2-Tetrachloroethane	116		113		70-130	3		30
Bromobenzene	107		106		70-130	1		30
n-Butylbenzene	98		94		70-130	4		30
sec-Butylbenzene	97		94		70-130	3		30
tert-Butylbenzene	101		98		70-130	3		30
o-Chlorotoluene	99		98		70-130	1		30
p-Chlorotoluene	100		99		70-130	1		30
1,2-Dibromo-3-chloropropane	98		102		68-130	4		30
Hexachlorobutadiene	118		114		67-130	3		30
Isopropylbenzene	100		98		70-130	2		30
p-Isopropyltoluene	102		98		70-130	4		30
Naphthalene	91		94		70-130	3		30
Acrylonitrile	94		97		70-130	3		30
n-Propylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	110		110		70-130	0		30
1,2,4-Trichlorobenzene	114		112		70-130	2		30
1,3,5-Trimethylbenzene	100		96		70-130	4		30
1,2,4-Trimethylbenzene	100		98		70-130	2		30
1,4-Dioxane	94		100		65-136	6		30
p-Diethylbenzene	100		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: Not Specified

Lab Number: L2404125

Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881513-3 WG1881513-4								
p-Ethyltoluene	103		100		70-130	3		30
1,2,4,5-Tetramethylbenzene	101		98		70-130	3		30
Ethyl ether	**63**	Q	**64**	Q	67-130	2		30
trans-1,4-Dichloro-2-butene	92		96		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		96		70-130
Toluene-d8	98		95		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	104		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881724-3 WG1881724-4								
Methylene chloride	97		95		70-130	2		30
1,1-Dichloroethane	101		99		70-130	2		30
Chloroform	106		99		70-130	7		30
Carbon tetrachloride	127		121		70-130	5		30
1,2-Dichloropropane	96		94		70-130	2		30
Dibromochloromethane	113		113		70-130	0		30
1,1,2-Trichloroethane	97		98		70-130	1		30
Tetrachloroethene	120		112		70-130	7		30
Chlorobenzene	105		100		70-130	5		30
Trichlorofluoromethane	74		70		70-139	6		30
1,2-Dichloroethane	99		97		70-130	2		30
1,1,1-Trichloroethane	115		110		70-130	4		30
Bromodichloromethane	107		106		70-130	1		30
trans-1,3-Dichloropropene	97		95		70-130	2		30
cis-1,3-Dichloropropene	109		107		70-130	2		30
1,1-Dichloropropene	107		102		70-130	5		30
Bromoform	100		99		70-130	1		30
1,1,2,2-Tetrachloroethane	93		94		70-130	1		30
Benzene	103		100		70-130	3		30
Toluene	100		96		70-130	4		30
Ethylbenzene	98		94		70-130	4		30
Chloromethane	101		95		52-130	6		30
Bromomethane	63		60		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881724-3 WG1881724-4								
Vinyl chloride	79		74		67-130	7		30
Chloroethane	63		60		50-151	5		30
1,1-Dichloroethene	68		65		65-135	5		30
trans-1,2-Dichloroethene	108		105		70-130	3		30
Trichloroethene	101		98		70-130	3		30
1,2-Dichlorobenzene	105		100		70-130	5		30
1,3-Dichlorobenzene	107		101		70-130	6		30
1,4-Dichlorobenzene	105		99		70-130	6		30
Methyl tert butyl ether	98		101		66-130	3		30
p/m-Xylene	104		100		70-130	4		30
o-Xylene	93		90		70-130	3		30
cis-1,2-Dichloroethene	103		99		70-130	4		30
Dibromomethane	102		102		70-130	0		30
Styrene	99		97		70-130	2		30
Dichlorodifluoromethane	112		103		30-146	8		30
Acetone	103		94		54-140	9		30
Carbon disulfide	67		63		59-130	6		30
2-Butanone	88		91		70-130	3		30
Vinyl acetate	104		105		70-130	1		30
4-Methyl-2-pentanone	79		83		70-130	5		30
1,2,3-Trichloropropane	89		88		68-130	1		30
2-Hexanone	77		82		70-130	6		30
Bromochloromethane	117		113		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881724-3 WG1881724-4								
2,2-Dichloropropane	110		105		70-130	5		30
1,2-Dibromoethane	107		106		70-130	1		30
1,3-Dichloropropane	96		98		69-130	2		30
1,1,1,2-Tetrachloroethane	116		113		70-130	3		30
Bromobenzene	105		102		70-130	3		30
n-Butylbenzene	100		93		70-130	7		30
sec-Butylbenzene	99		94		70-130	5		30
tert-Butylbenzene	102		97		70-130	5		30
o-Chlorotoluene	99		94		70-130	5		30
p-Chlorotoluene	101		95		70-130	6		30
1,2-Dibromo-3-chloropropane	105		106		68-130	1		30
Hexachlorobutadiene	120		105		67-130	13		30
Isopropylbenzene	101		96		70-130	5		30
p-Isopropyltoluene	104		98		70-130	6		30
Naphthalene	98		95		70-130	3		30
Acrylonitrile	101		101		70-130	0		30
n-Propylbenzene	98		92		70-130	6		30
1,2,3-Trichlorobenzene	112		107		70-130	5		30
1,2,4-Trichlorobenzene	118		108		70-130	9		30
1,3,5-Trimethylbenzene	100		95		70-130	5		30
1,2,4-Trimethylbenzene	101		95		70-130	6		30
1,4-Dioxane	92		101		65-136	9		30
p-Diethylbenzene	102		96		70-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22 Batch: WG1881724-3 WG1881724-4								
p-Ethyltoluene	103		97		70-130	6		30
1,2,4,5-Tetramethylbenzene	104		96		70-130	8		30
Ethyl ether	**66**	Q	**66**	Q	67-130	0		30
trans-1,4-Dichloro-2-butene	95		93		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		94		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	104		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1882473-3 WG1882473-4								
Methylene chloride	86		84		70-130	2		30
1,1-Dichloroethane	91		88		70-130	3		30
Chloroform	86		85		70-130	1		30
Carbon tetrachloride	92		89		70-130	3		30
1,2-Dichloropropane	96		92		70-130	4		30
Dibromochloromethane	90		88		70-130	2		30
1,1,2-Trichloroethane	87		85		70-130	2		30
Tetrachloroethene	89		88		70-130	1		30
Chlorobenzene	95		93		70-130	2		30
Trichlorofluoromethane	92		89		70-139	3		30
1,2-Dichloroethane	76		73		70-130	4		30
1,1,1-Trichloroethane	91		88		70-130	3		30
Bromodichloromethane	86		85		70-130	1		30
trans-1,3-Dichloropropene	81		79		70-130	3		30
cis-1,3-Dichloropropene	89		87		70-130	2		30
1,1-Dichloropropene	92		88		70-130	4		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	82		80		70-130	2		30
Benzene	94		91		70-130	3		30
Toluene	88		87		70-130	1		30
Ethylbenzene	90		88		70-130	2		30
Chloromethane	103		97		52-130	6		30
Bromomethane	102		96		57-147	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1882473-3 WG1882473-4								
Vinyl chloride	105		100		67-130	5		30
Chloroethane	107		102		50-151	5		30
1,1-Dichloroethene	98		94		65-135	4		30
trans-1,2-Dichloroethene	94		90		70-130	4		30
Trichloroethene	94		91		70-130	3		30
1,2-Dichlorobenzene	92		90		70-130	2		30
1,3-Dichlorobenzene	94		92		70-130	2		30
1,4-Dichlorobenzene	92		89		70-130	3		30
Methyl tert butyl ether	74		73		66-130	1		30
p/m-Xylene	90		88		70-130	2		30
o-Xylene	88		87		70-130	1		30
cis-1,2-Dichloroethene	95		93		70-130	2		30
Dibromomethane	94		92		70-130	2		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	81		78		30-146	4		30
Acetone	77		81		54-140	5		30
Carbon disulfide	89		85		59-130	5		30
2-Butanone	89		88		70-130	1		30
Vinyl acetate	98		92		70-130	6		30
4-Methyl-2-pentanone	74		73		70-130	1		30
1,2,3-Trichloropropane	80		79		68-130	1		30
2-Hexanone	71		74		70-130	4		30
Bromochloromethane	102		100		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1882473-3 WG1882473-4								
2,2-Dichloropropane	83		80		70-130	4		30
1,2-Dibromoethane	91		88		70-130	3		30
1,3-Dichloropropane	84		81		69-130	4		30
1,1,1,2-Tetrachloroethane	90		90		70-130	0		30
Bromobenzene	91		88		70-130	3		30
n-Butylbenzene	91		87		70-130	4		30
sec-Butylbenzene	90		87		70-130	3		30
tert-Butylbenzene	94		91		70-130	3		30
o-Chlorotoluene	87		86		70-130	1		30
p-Chlorotoluene	88		86		70-130	2		30
1,2-Dibromo-3-chloropropane	79		79		68-130	0		30
Hexachlorobutadiene	83		80		67-130	4		30
Isopropylbenzene	84		82		70-130	2		30
p-Isopropyltoluene	89		86		70-130	3		30
Naphthalene	83		81		70-130	2		30
Acrylonitrile	89		90		70-130	1		30
n-Propylbenzene	93		90		70-130	3		30
1,2,3-Trichlorobenzene	86		84		70-130	2		30
1,2,4-Trichlorobenzene	87		84		70-130	4		30
1,3,5-Trimethylbenzene	92		88		70-130	4		30
1,2,4-Trimethylbenzene	93		90		70-130	3		30
1,4-Dioxane	98		98		65-136	0		30
p-Diethylbenzene	97		93		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1882473-3 WG1882473-4								
p-Ethyltoluene	94		91		70-130	3		30
1,2,4,5-Tetramethylbenzene	83		79		70-130	5		30
Ethyl ether	93		90		67-130	3		30
trans-1,4-Dichloro-2-butene	80		78		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	78		77		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	89		89		70-130
Dibromofluoromethane	102		101		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-01
Client ID: TW-10 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/23/24 12:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.9		%	0.100	NA	1	-	01/25/24 12:29	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-03
Client ID: SB-8S1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/23/24 13:45
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	01/25/24 12:29	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-05
Client ID: SB-8S2 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/23/24 14:10
Date Received: 01/24/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	01/25/24 12:29	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-07
Client ID: SB-8E1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 11:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.1		%	0.100	NA	1	-	01/26/24 07:56	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-11
Client ID: SB-8W1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 12:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	01/26/24 07:56	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-15
Client ID: SB-8N1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 12:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	01/26/24 07:56	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-17
Client ID: SB-4S1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	01/26/24 07:56	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-18
Client ID: SB-4S1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	02/02/24 15:37	121,2540G	SJB

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-21
Client ID: SB-4W1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:40
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	01/26/24 07:56	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-22
Client ID: SB-4W1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 13:50
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	02/02/24 15:37	121,2540G	SJB

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-23
Client ID: SB-4W2 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:00
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	02/02/24 15:37	121,2540G	SJB

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-24
Client ID: SB-4W2 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:10
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	02/06/24 21:52	121,2540G	SJB

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-25
Client ID: SB-4N1 (1-3)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:20
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	01/26/24 07:56	121,2540G	ROI

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

SAMPLE RESULTS

Lab ID: L2404125-26
Client ID: SB-4N1 (3-5)
Sample Location: BKLYN, NY

Date Collected: 01/24/24 14:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	02/02/24 15:37	121,2540G	SJB

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH ST

Project Number: Not Specified

Lab Number: L2404125

Report Date: 02/07/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05 QC Batch ID: WG1878092-1 QC Sample: L2404124-01 Client ID: DUP Sample						
Solids, Total	83.5	83.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07,11,15,17,21,25 QC Batch ID: WG1878449-1 QC Sample: L2404125-07 Client ID: SB-8E1 (1-3)						
Solids, Total	80.1	82.0	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 18,22-23,26 QC Batch ID: WG1881066-1 QC Sample: L2404125-18 Client ID: SB-4S1 (3-5)						
Solids, Total	88.2	88.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 24 QC Batch ID: WG1882300-1 QC Sample: L2402542-30 Client ID: DUP Sample						
Solids, Total	83.5	81.3	%	3		20

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-01A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-01B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-01C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-01D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L2404125-01X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-01Y	Vial Water preserved split	A	NA		3.3	Y	Absent	**25-JAN-24 13:45**	NYTCL-8260HLW(14)
L2404125-01Z	Vial Water preserved split	A	NA		3.3	Y	Absent	**25-JAN-24 13:45**	NYTCL-8260HLW(14)
L2404125-02A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-02B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-02C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-02D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		HOLD-WETCHEM()
L2404125-02X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-02Y	Vial Water preserved split	A	NA		3.3	Y	Absent	**25-JAN-24 13:45**	HOLD-8260HLW(14)
L2404125-02Z	Vial Water preserved split	A	NA		3.3	Y	Absent	**25-JAN-24 13:45**	HOLD-8260HLW(14)
L2404125-03A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-03B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-03C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-03D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L2404125-03X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		NYTCL-8260HLW(14)
L2404125-03Y	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	NYTCL-8260HLW(14)
L2404125-03Z	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	NYTCL-8260HLW(14)
L2404125-04A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-04B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-04C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-04D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		HOLD-WETCHEM()
L2404125-04X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-04Y	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	HOLD-8260HLW(14)
L2404125-04Z	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	HOLD-8260HLW(14)
L2404125-05A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-05B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-05C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-05D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		TS(7)
L2404125-05X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-05Y	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	HOLD-8260HLW(14)
L2404125-05Z	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	HOLD-8260HLW(14)
L2404125-06A	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-06B	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-06C	5 gram Encore Sampler	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-06D	Plastic 2oz unpreserved for TS	A	NA		3.3	Y	Absent		HOLD-WETCHEM()
L2404125-06X	Vial MeOH preserved split	A	NA		3.3	Y	Absent		HOLD-8260HLW(14)
L2404125-06Y	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	HOLD-8260HLW(14)
L2404125-06Z	Vial Water preserved split	A	NA		3.3	Y	Absent	25-JAN-24 13:45	HOLD-8260HLW(14)
L2404125-07A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-07B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-07C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-07D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-07X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-07Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-07Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-08A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-08B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-08C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-08D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-08X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-08Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-08Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-09A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-09B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-09C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-09D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-09X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-09Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-09Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-10A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-10B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-10C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-10D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-10X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-10Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-10Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-11A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-11B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-11C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-11D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-11X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-11Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-11Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-12A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-12B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-12C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-12D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-12X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-12Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-12Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-13A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-13B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-13C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-13D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-13X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-13Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-13Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-14A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-14B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-14C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-14D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-14X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-14Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-14Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-15A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-15B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-15C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-15D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-15X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-15Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-15Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-16A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-16B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-16C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-16D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-16X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-16Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-16Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-17A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-17B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-17C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-17D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-17X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-17Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-17Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-18A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-18B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-18C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-18D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-18X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-18Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-18Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-19A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-19B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-19C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-19D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-19X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-19Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-19Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-20A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-20B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-20C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-20D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		HOLD-WETCHEM()
L2404125-20X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		HOLD-8260HLW(14)
L2404125-20Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-20Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	HOLD-8260HLW(14)
L2404125-21A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-21B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-21C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-21D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-21X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-21Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-21Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-22A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-22B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-22C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-22D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-22X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-22Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-22Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-23A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-23B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-23C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-23D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-23X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-23Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-23Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-24A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST
Project Number: Not Specified

Lab Number: L2404125
Report Date: 02/07/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404125-24B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-24C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-24D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-24X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-24Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-24Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-25A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-25B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-25C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-25D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-25X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-25Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-25Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-26A	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-26B	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-26C	5 gram Encore Sampler	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-26D	Plastic 2oz unpreserved for TS	B	NA		3.0	Y	Absent		TS(7)
L2404125-26X	Vial MeOH preserved split	B	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L2404125-26Y	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)
L2404125-26Z	Vial Water preserved split	B	NA		3.0	Y	Absent	26-JAN-24 10:11	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	127 12TH ST	**Lab Number:**	L2404125
Project Number:	Not Specified	**Report Date:**	02/07/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH ST	**Lab Number:**	L2404125
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Footnotes

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

Terms

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

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH ST	**Lab Number:**	L2404125
Project Number:	Not Specified	**Report Date:**	02/07/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	127 12TH ST	**Lab Number:**	L2404125
Project Number:	Not Specified	**Report Date:**	02/07/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

ALPHA ANALYTICAL

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

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

NEW YORK CHAIN OF CUSTODY

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

Page 1 of 1

Date Rec'd in Lab: 1/25/24

ALPHA Job #: L2404125

Client Information
Client: 127-129 12TH ST TENEN
Address: 121 W 27TH, #702 NEW YORK, NY
Phone: 646-606-2332
Fax:
Email: VCHANG@TENEN-ENV.COM

Project Information
Project Name: 127 12TH ST
Project Location: BKLYN, NY
Project #
(Use Project name as Project #) ☒
Project Manager: M. CARROLL / M. AHMED
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐ PREVIOUS PROJECT → ADD TO SAME NAME

Other project specific requirements/comments:
CAT B DELIVERABLES. KEEP SDG OPEN. HOLD ANALYSIS AS NOTED (CHJ)

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NOCs	NOCs (Hold)	Sample Specific Comments	Total Bottle
04125-01	TW-10 (3-5)	1/23/2024	12:45	SOIL	VC	X			
	~~TW-9 (1-3)~~							NOT SAMPLED	
-03	TW-9 (3-5)		13:30				X		
-03	SB-8 ~~SB-8~~-S1 (1-3)		13:45			X			
-04	SB-8-S1 (3-5)		1400				X		
-05	SB-8-S2 (1-3)		1410			X			
-06	SB-8-S2 (3-5)		1420				X		
		1/23/24							

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

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

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

Container Type	ENCORES								
Preservative	NO BOTTLES								

Relinquished By:	Date/Time	Received By:	Date/Time
	1/24/2024 17:00	MPI	1/24/24 17:00
MPI	1/24/24 18:40		1/24 19:20
	1/24	MPI	1/24 22:20
	1/25 01:40		1/25/24 0040

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 1 of 2

Date Rec'd in Lab: 1/26/24

ALPHA Job #: L2404125

Client Information
Client: TENEN ENVIRONMENTAL
Address: 121 W 27TH ST, #701 NEW YORK, NY
Phone: —
Fax: —
Email: VCHANG@TENEN-ENV.COM

Project Information
Project Name: 127 12TH STREET
Project Location: BROOKLYN, NY
Project #: —
(Use Project name as Project #) ☒
Project Manager: M. CARROLL / M. AHMED
ALPHAQuote #: —

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

ADD TO YESTERDAYS SOG & CLOSE SOG. HOLD ANALYSIS FOR SPECIFIED SAMPLES "(HOLD)"

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	VOCs (HOLD)	Sample Specific Comments	Total Bottle
04125 -07	SB-8E1 (1-3)	1/24/2024	1130	SOIL	VC	X			
-08	SB-8E1 (3-5)		1140				X		
-09	SB-8E2 (1-3)		1150				X		
-10	SB-8E2 (3-5)		1200				X		
-11	SB-8W1 (1-3)		1210			X			
-12	SB-8W1 (3-5)		1220				X		
-13	SB-8W2 (1-3)		1230				X		
-14	SB-8W2 (3-5)		1240				X		
-15	SB-8N1 (1-3)		1250			X			
-16	SB-8N1 (3-5)		1300				X		

Container Type: P
Preservative: A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	1/25/2024 1630		1/24/24 1942
Vince	1/25/24 2104	Anthony Green	JAN 25 2024 2106
Anthony Green	1/26/24 0020		1/26/24 00 20
	1/26/24 0220		1/26/24 0220

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 2 of 2

Date Rec'd in Lab: 1/26/24

ALPHA Job #: L2404125

Client Information
Client: TENEN ENVIRONMENTAL
Address: 127 W 127TH ST
BK/NEW YORK NY
Phone: —
Fax: —
Email: VCHANG@TENENENV.COM

Project Information
Project Name: 127 127th ST
Project Location: BROOKLYN, NY
Project #: —
(Use Project name as Project #) ☒
Project Manager: M. CARROLL/M. AHMED
ALPHAQuote #: —

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
SAME AS PAGE 1. HOLD AS SPECIFIED 5" VOCs CHOLD

Please specify Metals or TAL.

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: VOCs	ANALYSIS: VOCs (Hold)	Sample Specific Comments	Total Bottle
04125-17	SB-4S1 (1-3)	1/24/24	1300	SOIL	VC	X			
-18	SB-4S1 (3-5)		1310				X		
-19	SB-4S2 (1-3)		1320				X		
-20	SB-4S2 (3-5)		1330				X		
-21	SB-4W1 (1-3)		1340			X			
-22	SB-4W1 (3-5)		1350				X		
-23	SB-4W2 (1-3)		1400				X		
-24	SB-4W2 (3-5)		1410				X		
-25	SB-4N1 (1-3)		1420			X			
-26	SB-4N1 (3-5)	↓	1430	↓	↓		X		

Container Type	FP	EP
Preservative	A	A

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	1/25/2024 1640		1/24/24 1942
	1/25/25 1104	Anthony Green	JAN 25 2024 21:00
Anthony Green	1/26/24 0020		1/26/24 0020
	1/26/24 0220		1/26/24 0220

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

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

ANALYTICAL REPORT

Lab Number:	L2404457
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Matthew Carroll
Phone:	(646) 606-2332
Project Name:	127 12TH ST.
Project Number:	127 12TH ST
Report Date:	02/01/24

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2404457-01	TW-9	WATER	127 12TH ST BROOKLYN NY	01/25/24 10:25	01/25/24
L2404457-02	TW-10	WATER	127 12TH ST BROOKLYN NY	01/25/24 13:15	01/25/24
L2404457-03	TW-8	WATER	127 12TH ST BROOKLYN NY	01/25/24 11:55	01/25/24
L2404457-04	TW-3	WATER	127 12TH ST BROOKLYN NY	01/25/24 14:30	01/25/24

Project Name:	127 12TH ST.	**Lab Number:**	L2404457
Project Number:	127 12TH ST	**Report Date:**	02/01/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	127 12TH ST.	**Lab Number:**	L2404457
Project Number:	127 12TH ST	**Report Date:**	02/01/24

Case Narrative (continued)

Report Submission

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

Sample Receipt

L2404457-03 and -04: The Client ID was specified by the client.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 02/01/24

ORGANICS

VOLATILES

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-01 D
Client ID: TW-9
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 10:25
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/27/24 16:51
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	ND		ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.34	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	200		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
1,3-Dichloropropene, Total	ND		ug/l	1.2	0.36	2.5
1,1-Dichloropropene	ND		ug/l	6.2	1.8	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.42	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	ND		ug/l	2.5	0.18	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.42	2.5
trans-1,2-Dichloroethene	ND		ug/l	6.2	1.8	2.5

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-01 D
Client ID: TW-9
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 10:25
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	8.4		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
Xylenes, Total	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	9.6		ug/l	6.2	1.8	2.5
1,2-Dichloroethene, Total	9.6		ug/l	6.2	1.8	2.5
Dibromomethane	ND		ug/l	12	2.5	2.5
1,2,3-Trichloropropane	ND		ug/l	6.2	1.8	2.5
Acrylonitrile	ND		ug/l	12	3.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	ND		ug/l	12	3.6	2.5
Carbon disulfide	ND		ug/l	12	2.5	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
Vinyl acetate	ND		ug/l	12	2.5	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
2-Hexanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
2,2-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,3-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	6.2	1.8	2.5
Bromobenzene	ND		ug/l	6.2	1.8	2.5
n-Butylbenzene	ND		ug/l	6.2	1.8	2.5
sec-Butylbenzene	ND		ug/l	6.2	1.8	2.5
tert-Butylbenzene	ND		ug/l	6.2	1.8	2.5
o-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
p-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Hexachlorobutadiene	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
p-Isopropyltoluene	ND		ug/l	6.2	1.8	2.5
Naphthalene	ND		ug/l	6.2	1.8	2.5

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-01 D
Client ID: TW-9
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 10:25
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3,5-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,4-Dioxane	ND		ug/l	620	150	2.5
p-Diethylbenzene	ND		ug/l	5.0	1.8	2.5
p-Ethyltoluene	ND		ug/l	5.0	1.8	2.5
1,2,4,5-Tetramethylbenzene	ND		ug/l	5.0	1.4	2.5
Ethyl ether	ND		ug/l	6.2	1.8	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	6.2	1.8	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-02
Client ID: TW-10
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 13:15
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/27/24 17:13
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.5	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	16		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	2.2		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-02 Date Collected: 01/25/24 13:15

Client ID: TW-10 Date Received: 01/25/24

Sample Location: 127 12TH ST BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.79		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	39		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	39		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-02 Date Collected: 01/25/24 13:15

Client ID: TW-10 Date Received: 01/25/24

Sample Location: 127 12TH ST BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-03
Client ID: TW-8
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 11:55
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/27/24 17:36
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.2	J	ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	110		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-03 Date Collected: 01/25/24 11:55

Client ID: TW-8 Date Received: 01/25/24

Sample Location: 127 12TH ST BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-03 Date Collected: 01/25/24 11:55

Client ID: TW-8 Date Received: 01/25/24

Sample Location: 127 12TH ST BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: 127 12TH ST.
Lab Number: L2404457
Project Number: 127 12TH ST
Report Date: 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-03
Client ID: TW-8
Sample Location: 127 12TH ST BROOKLYN NY
Date Collected: 01/25/24 11:55
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 01/29/24 11:24
Analyst: SRO

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	ND		ug/l	2.00	2.00	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	ND		ug/l	0.500	0.500	1	A

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-04
Client ID: TW-3
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 14:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 01/27/24 17:58
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.2	J	ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	150		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-04 Date Collected: 01/25/24 14:30

Client ID: TW-3 Date Received: 01/25/24

Sample Location: 127 12TH ST BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	7.7		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	7.8		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	7.8		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 127 12TH ST. **Lab Number:** L2404457

Project Number: 127 12TH ST **Report Date:** 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-04 Date Collected: 01/25/24 14:30

Client ID: TW-3 Date Received: 01/25/24

Sample Location: 127 12TH ST BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 01/29/24 06:55
Analyst: SRO

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 03 Batch: WG1879167-3						
Methane	ND		ug/l	2.00	2.00	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/27/24 10:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1879237-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/27/24 10:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1879237-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 01/27/24 10:35
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1879237-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST.

Project Number: 127 12TH ST

Lab Number: L2404457

Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 03 Batch: WG1879167-2									
Methane	101		-		80-120	-		25	A
Ethene	94		-		80-120	-		25	A
Ethane	96		-		80-120	-		25	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1879237-3 WG1879237-4								
Methylene chloride	100		94		70-130	6		20
1,1-Dichloroethane	100		96		70-130	4		20
Chloroform	100		96		70-130	4		20
Carbon tetrachloride	100		94		63-132	6		20
1,2-Dichloropropane	99		94		70-130	5		20
Dibromochloromethane	93		89		63-130	4		20
1,1,2-Trichloroethane	98		93		70-130	5		20
Tetrachloroethene	98		91		70-130	7		20
Chlorobenzene	100		94		75-130	6		20
Trichlorofluoromethane	100		98		62-150	2		20
1,2-Dichloroethane	96		92		70-130	4		20
1,1,1-Trichloroethane	99		94		67-130	5		20
Bromodichloromethane	96		91		67-130	5		20
trans-1,3-Dichloropropene	95		90		70-130	5		20
cis-1,3-Dichloropropene	94		90		70-130	4		20
1,1-Dichloropropene	99		93		70-130	6		20
Bromoform	96		89		54-136	8		20
1,1,2,2-Tetrachloroethane	100		98		67-130	2		20
Benzene	100		94		70-130	6		20
Toluene	100		94		70-130	6		20
Ethylbenzene	100		95		70-130	5		20
Chloromethane	91		88		64-130	3		20
Bromomethane	100		94		39-139	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1879237-3 WG1879237-4								
Vinyl chloride	100		99		55-140	1		20
Chloroethane	110		100		55-138	10		20
1,1-Dichloroethene	100		94		61-145	6		20
trans-1,2-Dichloroethene	100		95		70-130	5		20
Trichloroethene	100		94		70-130	6		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	110		99		70-130	11		20
1,4-Dichlorobenzene	110		98		70-130	12		20
Methyl tert butyl ether	92		90		63-130	2		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		90		70-130	11		20
cis-1,2-Dichloroethene	100		94		70-130	6		20
Dibromomethane	95		92		70-130	3		20
1,2,3-Trichloropropane	100		97		64-130	3		20
Acrylonitrile	100		96		70-130	4		20
Styrene	100		90		70-130	11		20
Dichlorodifluoromethane	81		76		36-147	6		20
Acetone	96		98		58-148	2		20
Carbon disulfide	97		90		51-130	7		20
2-Butanone	94		92		63-138	2		20
Vinyl acetate	97		93		70-130	4		20
4-Methyl-2-pentanone	82		81		59-130	1		20
2-Hexanone	82		82		57-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1879237-3 WG1879237-4								
Bromochloromethane	100		95		70-130	5		20
2,2-Dichloropropane	110		99		63-133	11		20
1,2-Dibromoethane	94		90		70-130	4		20
1,3-Dichloropropane	98		93		70-130	5		20
1,1,1,2-Tetrachloroethane	97		90		64-130	7		20
Bromobenzene	100		98		70-130	2		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	100		98		70-130	2		20
tert-Butylbenzene	110		98		70-130	12		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	98		93		41-144	5		20
Hexachlorobutadiene	90		90		63-130	0		20
Isopropylbenzene	110		99		70-130	11		20
p-Isopropyltoluene	100		96		70-130	4		20
Naphthalene	94		93		70-130	1		20
n-Propylbenzene	110		99		69-130	11		20
1,2,3-Trichlorobenzene	95		91		70-130	4		20
1,2,4-Trichlorobenzene	98		94		70-130	4		20
1,3,5-Trimethylbenzene	100		97		64-130	3		20
1,2,4-Trimethylbenzene	110		97		70-130	13		20
1,4-Dioxane	156		122		56-162	**24**	Q	20
p-Diethylbenzene	100		97		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST.

Project Number: 127 12TH ST

Lab Number: L2404457

Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1879237-3 WG1879237-4								
p-Ethyltoluene	110		98		70-130	12		20
1,2,4,5-Tetramethylbenzene	100		96		70-130	4		20
Ethyl ether	110		100		59-134	10		20
trans-1,4-Dichloro-2-butene	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		105		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	101		102		70-130

METALS

Project Name: 127 12TH ST.
Project Number: 127 12TH ST
Lab Number: L2404457
Report Date: 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-03
Client ID: TW-8
Sample Location: 127 12TH ST BROOKLYN NY
Date Collected: 01/25/24 11:55
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Iron, Total	0.604		mg/l	0.0500	0.0090	1	01/29/24 20:11	01/30/24 16:16	EPA 3005A	1,6010D	CEY
General Chemistry - Westborough Lab											
Iron, Ferric	0.60		mg/l	0.50	0.06	1		01/30/24 16:16	NA	107,-	

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1878643-1										
Iron, Total	ND		mg/l	0.0500	0.0090	1	01/29/24 20:11	01/30/24 15:15	1,6010D	CEY

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST.

Project Number: 127 12TH ST

Lab Number: L2404457

Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1878643-2								
Iron, Total	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1878643-3 QC Sample: L2404214-01 Client ID: MS Sample												
Iron, Total	0.037J	1	0.933	93		-	-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-01
Client ID: TW-9
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 10:25
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrite	0.022	J	mg/l	0.050	0.014	1	-	01/26/24 07:10	44,353.2	KAF
Nitrogen, Nitrate	4.5		mg/l	0.10	0.023	1	-	01/26/24 07:10	44,353.2	KAF
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	01/26/24 08:05	121,3500FE-B	KAF

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-02
Client ID: TW-10
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 13:15
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrite	0.022	J	mg/l	0.050	0.014	1	-	01/26/24 07:11	44,353.2	KAF
Nitrogen, Nitrate	2.9		mg/l	0.10	0.023	1	-	01/26/24 07:11	44,353.2	KAF
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	01/26/24 08:05	121,3500FE-B	KAF

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-03
Client ID: TW-8
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 11:55
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	98.4		mg CaCO3/L	2.00	NA	1	-	01/30/24 12:41	121,2320B	MRW
Nitrogen, Nitrite	ND		mg/l	0.050	0.014	1	-	01/26/24 07:12	44,353.2	KAF
Nitrogen, Nitrate	2.1		mg/l	0.10	0.023	1	-	01/26/24 07:12	44,353.2	KAF
Sulfide	ND		mg/l	0.10	0.10	1	01/27/24 06:00	01/27/24 06:48	121,4500S2-D	DBN
Chemical Oxygen Demand	3.9	J	mg/l	10	2.7	1	01/30/24 21:00	01/30/24 23:18	44,410.4	TLH
Total Organic Carbon	2.2		mg/l	0.50	0.09	1	-	01/29/24 03:07	1,9060A	DEW
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	01/26/24 08:05	121,3500FE-B	KAF
Anions by Ion Chromatography - Westborough Lab										
Chloride	11.7		mg/l	0.500	0.083	1	-	01/26/24 21:27	44,300.0	CVN
Sulfate	15.3		mg/l	1.00	0.454	1	-	01/26/24 21:27	44,300.0	CVN

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

SAMPLE RESULTS

Lab ID: L2404457-04
Client ID: TW-3
Sample Location: 127 12TH ST BROOKLYN NY

Date Collected: 01/25/24 14:30
Date Received: 01/25/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrite	ND		mg/l	0.050	0.014	1	-	01/26/24 07:14	44,353.2	KAF
Nitrogen, Nitrate	2.0		mg/l	0.10	0.023	1	-	01/26/24 07:14	44,353.2	KAF
Iron, Ferrous	0.21	J	mg/l	0.50	0.056	1	-	01/26/24 08:06	121,3500FE-B	KAF

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1878344-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.014	1	-	01/26/24 04:51	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1878347-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	01/26/24 04:56	44,353.2	KAF
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1878452-1										
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	01/26/24 08:04	121,3500FE-B	KAF
Anions by Ion Chromatography - Westborough Lab for sample(s): 03 Batch: WG1878749-1										
Sulfate	ND		mg/l	1.00	0.454	1	-	01/26/24 09:58	44,300.0	CVN
Anions by Ion Chromatography - Westborough Lab for sample(s): 03 Batch: WG1878749-1										
Chloride	ND		mg/l	0.500	0.083	1	-	01/26/24 09:58	44,300.0	CVN
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1878765-1										
Sulfide	ND		mg/l	0.10	0.10	1	01/27/24 06:00	01/27/24 06:45	121,4500S2-D	DBN
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1879118-1										
Total Organic Carbon	ND		mg/l	0.50	0.09	1	-	01/29/24 03:07	1,9060A	DEW
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1879700-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	01/30/24 14:08	121,2320B	MRW
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1879878-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	01/30/24 21:00	01/30/24 23:14	44,410.4	TLH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST.

Project Number: 127 12TH ST

Lab Number: L2404457

Report Date: 02/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1878344-2								
Nitrogen, Nitrite	94		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1878347-2								
Nitrogen, Nitrate	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1878452-2								
Iron, Ferrous	94		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 03 Batch: WG1878749-2								
Chloride	103		-		90-110	-		
Sulfate	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1878765-2								
Sulfide	104		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1879118-2								
Total Organic Carbon	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1879700-2								
Alkalinity, Total	109		-		90-110	-		10

Lab Control Sample Analysis

Batch Quality Control

Project Name: 127 12TH ST.

Project Number: 127 12TH ST

Lab Number: L2404457

Report Date: 02/01/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1879878-2					
Chemical Oxygen Demand	102	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1878344-4 QC Sample: L2404317-01 Client ID: MS Sample												
Nitrogen, Nitrite	ND	4	4.0	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1878347-4 QC Sample: L2404317-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.065J	4	3.8	95		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1878452-4 QC Sample: L2404457-01 Client ID: TW-9												
Iron, Ferrous	ND	1	1.1	107		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1878749-3 QC Sample: L2404214-01 Client ID: MS Sample												
Chloride	5540	2000	7360	91		-	-		90-110	-		18
Sulfate	3240	4000	7310	102		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1878765-4 QC Sample: L2403985-02 Client ID: MS Sample												
Sulfide	ND	0.43	0.20	**46**	Q	-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1879118-4 QC Sample: L2404044-01 Client ID: MS Sample												
Total Organic Carbon	1.6	16	15	86		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1879700-4 QC Sample: L2404222-01 Client ID: MS Sample												
Alkalinity, Total	133.	100	233	100		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1879878-3 QC Sample: L2404914-01 Client ID: MS Sample												
Chemical Oxygen Demand	8.6J	47.6	55	**116**	Q	-	-		90-110	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 127 12TH ST.

Project Number: 127 12TH ST

Lab Number: L2404457

Report Date: 02/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1878344-3 QC Sample: L2404317-01 Client ID: DUP Sample						
Nitrogen, Nitrite	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1878347-3 QC Sample: L2404317-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.065J	0.058J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1878452-3 QC Sample: L2404457-01 Client ID: TW-9						
Iron, Ferrous	ND	ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1878749-4 QC Sample: L2404214-01 Client ID: DUP Sample						
Chloride	5540	5490	mg/l	1		18
Sulfate	3240	3300	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1878765-3 QC Sample: L2403985-01 Client ID: DUP Sample						
Sulfide	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1879118-3 QC Sample: L2404459-06 Client ID: DUP Sample						
Total Organic Carbon	1.9	2.0	mg/l	5		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1879700-3 QC Sample: L2404222-01 Client ID: DUP Sample						
Alkalinity, Total	133.	129	mg CaCO3/L	3		10
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1879878-4 QC Sample: L2404914-01 Client ID: DUP Sample						
Chemical Oxygen Demand	8.6J	6.2J	mg/l	NC		20

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404457-01A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-01B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-01C	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-01D	Vial H2SO4 preserved	A	NA	NA	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01E	Vial H2SO4 preserved	A	NA	NA	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01F	Vial H2SO4 preserved	A	NA`	NA`	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01G	20ml Vial HCl preserved	A	NA	NA	3.5	Y	Absent		HOLD-DISSGAS()
L2404457-01H	20ml Vial HCl preserved	A	NA	NA	3.5	Y	Absent		HOLD-DISSGAS()
L2404457-01J	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01K	Plastic 250ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01M	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-01N	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		HOLD-METAL-TOTAL(180)
L2404457-01O	Plastic 500ml unpreserved	A	7	7	3.5	Y	Absent		HOLD-WETCHEM(),NO2-353(2),NO3-353(2),FERROUS(1)
L2404457-02A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-02B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-02C	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-02D	Vial H2SO4 preserved	A	NA	NA	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02E	Vial H2SO4 preserved	A	NA	NA	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02F	Vial H2SO4 preserved	A	NA	NA	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02G	20ml Vial HCl preserved	A	NA	NA	3.5	Y	Absent		HOLD-DISSGAS()
L2404457-02H	20ml Vial HCl preserved	A	NA	NA	3.5	Y	Absent		HOLD-DISSGAS()

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404457-02J	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02K	Plastic 250ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02M	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	3.5	Y	Absent		HOLD-WETCHEM()
L2404457-02N	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		HOLD-METAL-TOTAL(180)
L2404457-02O	Plastic 500ml unpreserved	A	7	7	3.5	Y	Absent		HOLD-WETCHEM(),NO2-353(2),NO3-353(2),FERROUS(1)
L2404457-03A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-03B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-03C	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2404457-03D	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-9060(28)
L2404457-03E	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-9060(28)
L2404457-03F	Vial H2SO4 preserved	A	NA		3.5	Y	Absent		TOC-9060(28)
L2404457-03G	20ml Vial HCl preserved	A	NA		3.5	Y	Absent		DISSGAS(14)
L2404457-03H	20ml Vial HCl preserved	A	NA		3.5	Y	Absent		DISSGAS(14)
L2404457-03J	Plastic 250ml unpreserved/No Headspace	A	NA		3.5	Y	Absent		ALK-T-2320(14)
L2404457-03K	Plastic 250ml H2SO4 preserved	A	<2	<2	3.5	Y	Absent		COD-410-LOW(28)
L2404457-03L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	3.5	Y	Absent		SULFIDE-4500(7)
L2404457-03M	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	3.5	Y	Absent		SULFIDE-4500(7)
L2404457-03N	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		FERRIC-CALC(1),FE-TI(180)
L2404457-03O	Plastic 500ml unpreserved	A	7	7	3.5	Y	Absent		SO4-300(28),CL-300(28),NO2-353(2),NO3-353(2),FERROUS(1)
L2404457-04A	Vial HCl preserved	B	NA		4.4	Y	Absent		NYTCL-8260(14)
L2404457-04B	Vial HCl preserved	B	NA		4.4	Y	Absent		NYTCL-8260(14)
L2404457-04C	Vial HCl preserved	B	NA		4.4	Y	Absent		NYTCL-8260(14)
L2404457-04D	Vial H2SO4 preserved	B	NA	NA	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04E	Vial H2SO4 preserved	B	NA	NA	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04F	Vial H2SO4 preserved	B	NA	NA	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04G	20ml Vial HCl preserved	B	NA	NA	4.4	Y	Absent		HOLD-DISSGAS()
L2404457-04H	20ml Vial HCl preserved	B	NA	NA	4.4	Y	Absent		HOLD-DISSGAS()

*Values in parentheses indicate holding time in days

Project Name: 127 12TH ST.
Project Number: 127 12TH ST

Lab Number: L2404457
Report Date: 02/01/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2404457-04J	Plastic 250ml unpreserved	B	7	7	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04K	Plastic 250ml H2SO4 preserved	B	<2	<2	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04L	Plastic 250ml Zn Acetate/NaOH preserved	B	>9	>9	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04M	Plastic 250ml Zn Acetate/NaOH preserved	B	>9	>9	4.4	Y	Absent		HOLD-WETCHEM()
L2404457-04N	Plastic 250ml HNO3 preserved	B	<2	<2	4.4	Y	Absent		HOLD-METAL-TOTAL(180)
L2404457-04O	Plastic 500ml unpreserved	B	7	7	4.4	Y	Absent		HOLD-WETCHEM(),NO2-353(2),NO3-353(2),FERROUS(1)

*Values in parentheses indicate holding time in days

Project Name:	127 12TH ST.	**Lab Number:**	L2404457
Project Number:	127 12TH ST	**Report Date:**	02/01/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	127 12TH ST.	**Lab Number:**	L2404457
Project Number:	127 12TH ST	**Report Date:**	02/01/24

Footnotes

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

Terms

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

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	127 12TH ST.	**Lab Number:**	L2404457
Project Number:	127 12TH ST	**Report Date:**	02/01/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

107 Alpha Analytical - In-house calculation method.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page: 1 of 1

Date Rec'd in Lab: 1/26/24

ALPHA Job #: L2404457

Client Information
Client: Teren
Address:
Phone:
Fax:
Email:

Project Information
Project Name: 127 12th St.
Project Location: 127 12th st Brooklyn NY
Project #
(Use Project name as Project #) ☒
Project Manager: VChang@teren-env.com
ALPHAQuote #:

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

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

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

Billing Information
☒ Same as Client Info
PO #

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
TW9, TW10, TWSB-3 Analyze for VOC's only. W/1SCO Parameters on hold

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Chloride + Sulfate	Dissolved Gases	Nitrate Nitrogen / Nitrate Nitrogen	Alkalinity	Total Volatile VOC's	Total Organic Carbon	Chemical Oxygen Demand / Oxygen Demand	Ferrous Iron / Ferric Iron	Total Iron	Sample Specific Comments	Total Bottle
0 4457 -01	TW9	1/25	10:25	H20	MEA					X					Analyze VOC's	
-02	TW-10	1/25	13:15	H20	MEA					X					Analyze VOC's	
-03	TW/SB-8	1/25	11:55	H20	MEA	X	X	X	X	X	X	X	X			VOC's ONLY
-04	TW/SB-3	1/25	14:30	H20	MEA					X					Analyze VOC's	

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

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

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

Container Type											
Preservative											

Relinquished By:	Date/Time	Received By:	Date/Time
M. Chang	1/25 18:45	[illegible]	1/25/24 16:43
[illegible]	1/25/24 19:55	Anthony Green	JAN 25 2024 2010
Anthony Green	1/26/24 0020	[illegible]	1/26/24 0020
	1/26/24 0220	Hayley DeBlecker	1/26/24 0220

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

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

Appendix B
Quality Assurance Project Plan

Quality Assurance Project Plan

for
127 12th Street
Remedial Investigation Work Plan

127 12th Street
Brooklyn, New York
Block 1220, Lot 52
BCP Site No. C224411

Submitted to:
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Prepared for:
Di Maio Enterprises Inc.
127 12th Street
Brooklyn, NY 11215

Prepared by:
Matthew M. Carroll, PE
1085 Sackett Avenue
Bronx, NY 10461

December 2025

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Appendix B – PFAS Field Sampling Guidelines
Appendix C – PFAS Compounds to be Analyzed and Associated MDLs
Appendix D – Laboratory Standard Operating Procedure for PFAS Analysis

1.0 INTRODUCTION

This Quality Assurance Project Plan (QAPP) has been developed for the Remedial Investigation Work Plan (RIWP) prepared for the 127 12th Street property (the Site).

The Site, located at 127 12th Street, Brooklyn, New York (Tax Block 1020, Lot 52), is a rectangular shaped parcel located midblock on the northeastern side 12th Street. The Site is bound by 12th Street to the south, industrial and manufacturing properties to the east, a parking lot and recreational facility/NYC park to the west, and residential properties followed by 11th Street to the north. The Site is approximately 17,500 square feet (SF) and has approximately 179 feet of frontage along 12th Street. The Site is currently improved with a two-story masonry building built in 1931. The Site building houses one commercial space with an area of approximately 25,334 SF. The building is currently utilized for metal finishing, predominantly through spray booth painting and lacquering operations. The building footprint comprises approximately 85% of the total Site area with 158 feet of frontage along 12th Street and a depth of 96 feet. The remainder of the Site is paved, with the easterner portion used for parking.

The Site lot is zoned M2-1 denoting light industrial uses, such as woodworking shops, repair shops, and wholesale service and storage facilities. M2-1 districts are often characterized by one- or two-story warehouses with loading bays and are often buffers between M2 or M3 districts and adjacent residential or commercial districts. Offices, hotels and most retail uses are also permitted under this zoning designation. The area surrounding the Site consists of industrial/manufacturing to the east and south, residential to the north and open space and outdoor recreation to the east.

1.1 Project Scope and QAPP Objective

The proposed scope of work includes the following:

- installation of soil borings, monitoring wells, and soil vapor points at the Site and offsite; and,
- collection of soil, groundwater, and soil vapor samples from soil borings, new permanent monitoring wells, and temporary soil vapor points.

The objective of the QAPP is to detail the policies, organization, objectives, functional activities and specific quality assurance/quality control activities designed to achieve the data quality goals or objectives of the RIWP. This QAPP addresses how the acquisition and handling of samples and the review and reporting of data will be documented for quality control (QC) purposes. Specifically, this QAPP addresses the following:

- The procedures to be used to collect, preserve, package, and transport samples;
- Field data collection and record keeping;
- Data management;
- Chain-of-custody procedures; and,
- Determination of precision, accuracy, completeness, representativeness, decision rules, comparability and level of quality control effort.

2.0 PROJECT ORGANIZATION

The personnel detailed are responsible for the implementation of the QAPP. Matthew M. Carroll, PE will implement the RIWP on behalf of Di Maio Enterprises Inc. once it has been approved by the New York State Department of Environmental Conservation (NYSDEC).

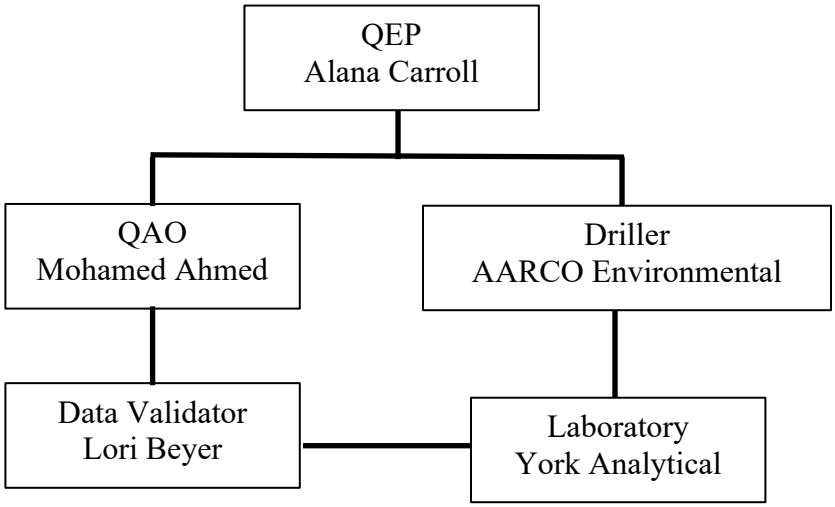
The Project Manager and Qualified Environmental Professional (QEP) will be Mrs. Alana Carroll, CPG, managing geologist at Tenen Environmental, LLC (Tenen). Mrs. Carroll is a certified professional geologist with experience in all aspects of site assessment, development and implementation of remedial strategies. Her experience involves projects from inception through investigation, remediation and closure. Her expertise includes soil, soil vapor and groundwater remediation; remedial selection and design; field/health and safety oversight and preparation of work plans and reports to satisfy the requirements of various regulatory agencies. Mrs. Carroll received her BS in Geology from Hofstra University; her resume is included in Appendix A.

The Quality Assurance Officer will be Mohamed Ahmed, Ph.D., CPG, principal at Tenen. Dr. Ahmed is a certified professional geologist with over 20 years of experience in the New York City metropolitan area. He has designed and implemented subsurface investigations and is proficient in groundwater modeling, design of groundwater treatment systems, and soil remediation. He has managed numerous projects focused on compliance with the requirements of the New York State Brownfield Cleanup Program and spills programs and the New York City E-designation program. Dr. Ahmed also has extensive experience in conducting regulatory negotiations with the New York State Department of Environmental Conservation, the New York City Department of Environmental Protection, the NYC Office of Housing Preservation and Development, and the Mayor's Office of Environmental Remediation. Dr. Ahmed holds advanced degrees in geology and Earth and Environmental Sciences from Brooklyn College and the Graduate Center of the City University of New York; his resume is included in Appendix A.

In addition, Matthew M. Carroll, PE will utilize subcontractors for drilling (AARCO Environmental Services of Lindenhurst, NY), laboratory services (York Analytical Laboratories of Richmond Hill, NY) and data validation (L.A.B. Validation Corp. of East Northport, NY). The resume for the DUSR preparer, Ms. Lori Beyer, is included in Appendix A.

Contact Information
Di Maio Enterprises Inc., Vito Di Maio, (718) 788-1106
Matthew M. Carroll, PE, Matthew Carroll, (917) 510-6767
Tenen Environmental, Alana Carroll or Mohamed Ahmed, (646) 606-2332

An organization chart for the implementation of the Remedial Investigation Work Plan and QAPP is below.



3.0 SAMPLING AND DECONTAMINATION PROCEDURES

A detailed description of the procedures to be used during this program for collection of the soil, groundwater, and soil vapor samples is provided below. Proposed sample locations are shown on Figure 3 of the Work Plan. An Analytical Methods/Quality Assurance Summary is provided in Table 1, included in Section 3.11.

3.1 Level of Effort for QC Samples

Field blank, trip blank, field duplicate and matrix spike (MS) / matrix spike duplicate (MSD) samples will be analyzed to assess the quality of the data resulting from the field sampling and analytical programs. Each type of QC sample is discussed below.

- Field and trip blanks consisting of distilled water will be submitted to the analytical laboratories to provide the means to assess the quality of the data resulting from the field-sampling program. Field (equipment) blank samples are analyzed to check for procedural chemical constituents that may cause sample contamination. Trip blanks are used to assess the potential for contamination of samples due to contaminant migration during sample shipment and storage.

- Duplicate samples are analyzed to check for sampling and analytical reproducibility.

- MS/MSD samples provide information about the effect of the sample matrix on the digestion and measurement methodology.

The general level of QC effort will be one field duplicate and one field blank (when non-dedicated equipment is used) for every 20 or fewer investigative samples of a given matrix. Additional sample volume will also be provided to the laboratory to allow one site-specific MS/MSD for every 20 or fewer investigative samples of a given matrix. One trip blank will be included along with each sample delivery group of volatile organic compound (VOC) samples.

The analytical laboratory, York Analytical Laboratories, is certified under the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) as Lab IDs 10854 and 12058. NYSDEC Analytical Services Protocol (ASP) Category B deliverables will be prepared by the laboratory.

3.2 Sample Handling

Samples will either be picked up by the laboratory, delivered to the laboratory in person by the sampler, or transported to the laboratory by overnight courier. All samples will be shipped to the laboratory to arrive within 48 hours after collection, and the laboratory will adhere to the analytical holding times for these analyses, as listed in the current version of the New York State ASP.

3.3 Custody Procedures

Sample custody will be controlled and maintained through the chain-of-custody procedures. The chain of custody is the means by which the possession and handling of samples is tracked from the site to the laboratory. Sample containers will be cleaned and preserved at the laboratory before shipment to the Site. The following sections (Sections 3.4 and 3.5) describe procedures for maintaining sample custody from the time samples are collected to the time they are received by the analytical laboratory.

3.4 Sample Storage

Samples will be stored in secure limited-access areas. Walk-in coolers or refrigerators will be maintained at 4°C, +/- 2°C, or as required by the applicable regulatory program. The temperatures of all refrigerated storage areas are monitored and recorded a minimum of once per day. Deviations of temperature from the applicable range require corrective action, including moving samples to another storage location, if necessary.

3.5 Sample Custody

Sample custody is defined by this QAPP as the following:

- The sample is in someone's actual possession;
- The sample is in someone's view after being in his or her physical possession;
- The sample was in someone's possession and then locked, sealed, or secured in a manner that prevents unsuspected tampering; or,
- The sample is placed in a designated and secured area.

Samples will be removed from storage areas by the sample custodian or laboratory personnel and transported to secure laboratory areas for analysis. Access to the laboratory and sample storage areas is restricted to laboratory personnel and escorted visitors only; all areas of the laboratory are therefore considered secure.

Laboratory documentation used to establish chain of custody and sample identification may include the following:

- Field chains of custody or other paperwork that arrives with the sample;
- Laboratory chain of custody;
- Sample labels or tags attached to each sample container;
- Sample custody seals;
- Sample preparation logs (i.e., extraction and digestion information) recorded in hardbound laboratory books, filled out in legible handwriting, and signed and dated by the chemist;
- Sample analysis logs (e.g., metals, GC/MS, etc.) information recorded in hardbound laboratory books that are filled out in legible handwriting, and signed and dated by the chemist;
- Sample storage log (same as the laboratory chain of custody); and,

- Sample disposition log, which documents sample disposal by a contracted waste disposal company.

3.6 Sample Tracking

All samples will be maintained in the appropriate coolers prior to and after analysis. Laboratory analysts will remove and return their samples, as needed. Samples that require internal chain of custody procedures will be relinquished to the analysts by the sample custodians. The analyst and sample custodian will sign the original chain of custody relinquishing custody of the samples from the sample custodian to the analyst. When the samples are returned, the analyst will sign the original chain of custody returning sample custody to the sample custodian. Sample extracts will be relinquished to the instrumentation analysts by the preparatory analysts. Each preparation department will track internal chain of custody through their logbooks/spreadsheets.

Any change in the sample during the time of custody will be noted on the chain of custody (e.g., sample breakage or depletion).

3.7 Soil Sampling

A total of 22 soil borings will be advanced as part of this RI; proposed soil sample locations are shown in Figure 3 of the RIWP. Boring locations may be moved or added based on access. Prior to modifications being made with regard to the above-described placement, coordination with NYSDEC will take place. All non-disposable sampling equipment will be decontaminated between borings, as described in Section 3.13.

The soil borings will be installed using a direct-push track-mounted Geoprobe® unit. Subsurface soil samples will be collected from five-foot macrocores fitted with dedicated acetate liners. Soil borings will be advanced to the first confining clay or silt layer detected below the groundwater interface. 15 soil borings will be advanced across the Site, and seven soil borings will be advanced offsite in the sidewalks of 12th Stret. At each location, the liners for each interval will be opened and the soil screened for VOCs using a 10.6 electron-volt (EV) PID. The soil retrieved from each sampler will be described by field staff on boring logs using the Unified Soil Classification System. All observations regarding potential contamination such as odors, staining, etc. will be documented. Soil will be screened from grade to the terminal depth of each boring. All descriptions and observations will be documented in a field logbook.

A minimum of 66 soil samples will be collected as part of this Remedial Investigation, for a minimum of three samples per soil boring. Soil samples will be collected from grade to two ft-bg, from the two foot interval directly above the groundwater interface, and from the top of the first clay or silt confining layer encountered below the groundwater interface in each boring. Additional soil samples will be collected if PID, visual, or olfactory evidence of contamination is noted in the soil column. Samples will be collected from the two foot interval of highest suspected contamination and from the next apparent clean two foot interval.

Soil samples selected for laboratory analysis will be collected directly from the acetate liner, placed in pre-cleaned, pre-preserved laboratory-provided sample bottles, sealed and labeled, and placed in a cooler and chilled to 4°C for transport under chain-of custody procedures. Soil

samples will be submitted to a New York State Department of Health (NYSDOH) ELAP-certified laboratory via courier service and analyzed for the respective analyte lists included in 6 NYCRR Part 375 SCOs. Laboratory analytical parameters and methods are outlined below. QA/QC procedures to be followed are described in the QAPP included as Appendix B.

A minimum of three soil samples will be collected from each boring and analyzed for the following analytes on the Part 375 list with a Category B deliverable package:

- Target Compound List (TCL) VOCs by EPA Method 8260;
- SVOCs by EPA Method 8270;
- Pesticides by EPA Method 8081B;
- Herbicides by EPA Method 8151A;
- PCBs by EPA Method 8082A;
- TAL Metals by EPA Methods 6010C/7471B;
- Total Cyanide by EPA Method 9010C;
- Trivalent and Hexavalent Chromium by EPA Method 3060A;
- PFAS by USEPA Method 1633; and,
- 1,4-Dioxane by USEPA Method 8270.

Field methods can impact the analysis of PFAS. PFAS samples will be collected using dedicated disposable sampling equipment when possible. If dedicated disposable sampling equipment cannot be used, samples will be collected with stainless steel tools (spoons, bowls, etc.) and decontaminated using detergent (Alconox) and clean, PFAS-free water. Sampling containers for PFAS will be made of high-density polyethylene (HDPE) with caps that will not be lined with polytetrafluoroethylene (PTFE). PFAS sampling containers will be kept in separate coolers from all other sampling containers and only regular ice will be used to cool the samples. Field staff conducting the sampling will not wear clothing that contains PTFE material or that has been waterproofed with PFAS material during sampling and all clothing worn will be laundered multiple times. Any bug spray or sunscreen utilized by field staff conducting the sampling will be PFAS free.

The following PFAS will be analyzed by EPA Method 1633:

- Perfluorobutanoic Acid (PFBA)
- Perfluoropentanoic Acid (PFPeA)
- Perfluorobutanesulfonic Acid (PFBS)
- 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)
- Perfluorohexanoic Acid (PFHxA)
- Perfluoropentanesulfonic Acid (PFPeS)
- Perfluoroheptanoic Acid (PFHpA)
- Perfluorohexanesulfonic Acid (PFHxS)
- Perfluorooctanoic Acid (PFOA)
- 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)
- Perfluoroheptanesulfonic Acid (PFHpS)
- Perfluorononanoic Acid (PFNA)
- Perfluorooctanesulfonic Acid (PFOS)
- Perfluorodecanoic Acid (PFDA)

- 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)
- Perfluorononanesulfonic Acid (PFNS)
- N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)
- Perfluoroundecanoic Acid (PFUnA)
- Perfluorodecanesulfonic Acid (PFDS)
- Perfluorooctanesulfonamide (FOSA)
- N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)
- Perfluorododecanoic Acid (PFDoA)
- Perfluorotridecanoic Acid (PFTrDA)
- Perfluorotetradecanoic Acid (PFTA)
- 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)
- 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)
- Perfluorododecane Sulfonic Acid (PFDoDS)
- 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)
- 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)
- N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)
- N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)
- N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)
- N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)
- Perfluoro-3-Methoxypropanoic Acid (PFMPA)
- Perfluoro-4-Methoxybutanoic Acid (PFMBA)
- Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)
- Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)
- 3-Perfluoropropyl Propanoic Acid (3:3FTCA)
- 2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)
- 3-Perfluoroheptyl Propanoic Acid (7:3FTCA)

A sampling guide is included in Appendix B. A list of PFAS compounds to be analyzed and associated MDLs is included in Appendix C. York Analytical, an ELAP-certified lab for PFAS by EPA Method 1633, will be performing all PFAS analyses of soil. The laboratory standard operating procedures for PFAS analysis is included in Appendix D.

3.8 Groundwater Sampling

Prior to sample collection, static water levels will be measured and recorded from all newly-installed monitoring wells to be sampled. Monitoring wells will also be gauged for the presence of non-aqueous phase liquid (NAPL). In the event that NAPL is detected, the thickness will be recorded and a sample of the NAPL will be collected for fingerprint analysis in addition to a groundwater sample. If NAPL is not detected, the monitoring wells will be purged and sampled using low-flow/minimal drawdown purge and sample collection procedures (peristaltic pump system). Prior to sample collection, groundwater will be evacuated from each well at a low-flow rate (typically less than 0.1 L/min). Field measurements for pH, temperature, turbidity, dissolved oxygen, specific conductance, oxidation-reduction potential and water level, as well as visual and olfactory field observations, will be periodically recorded and monitored for stabilization. Purging will be considered complete when pH,

temperature, specific conductance, dissolved oxygen, redox potential, and depth to water measurements stabilize and when turbidity measurements fall below 50 Nephelometric Turbidity Units (NTU) or become stable above 50 NTU. All efforts will be made to purge monitoring wells until a turbidity reading equal to or less than 50 NTU is achieved for sampling, as groundwater samples collected with elevated NTU may be considered biased high due to potential for entrained sediment in the sample.

Stability is considered to be achieved when three consecutive readings are within the following limits:

- Turbidity: 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized;
- Dissolved Oxygen : 10% for values greater than 0.5 mg/L, if three Dissolved Oxygen values are less than 0,5 mg/L, consider the values as stabilized;
- Specific Conductance: 3%;
- Temperature: 3%;
- pH: ±0.1 unit; and,
- Oxidation/Reduction Potential: ±10 millivolts

Upon stabilization of field parameters, groundwater samples will be collected and analyzed as discussed below.

Wells will be purged and sampled using dedicated high density polyethylene (HDPE) pump tubing following low-flow/minimal drawdown purge and sample collection procedures, as described above. The pump will be decontaminated between samples.

Groundwater samples will be collected for analysis through dedicated HDPE tubing. Prior to, and immediately following collection of groundwater samples, field measurements for pH, specific conductance, temperature, dissolved oxygen, turbidity, oxidation/reduction potential, and depth-to-water, as well as visual and olfactory field observations will be recorded. All collected groundwater samples will be placed in pre-cleaned, pre-preserved laboratory provided sample bottles, cooled to 4°C in the field, and transported under chain-of-custody command to the designated laboratory for analysis.

A total of 18 groundwater samples will be collected from newly installed groundwater wells.

All newly installed groundwater wells will be analyzed for the following analytes on the Part 375 list with a Category B deliverable package:

- VOCs by EPA Method 8260C;
- SVOCs by EPA Method 8270D;
- Pesticides by EPA Method 8081B;
- Herbicides by EPA Method 8151A;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082A;
- Total and Dissolved Target Analyte List (TAL) Metals by EPA Method 6010C/7471B;
- Total and Dissolved Cyanide by EPA Method 9010C;
- Total and Dissolved Trivalent and Hexavalent Chromium by EPA Method 3060A;

- PFAS by EPA Method 1633 [reporting limit of 2 parts per trillion (ppt)]; and,
- 1,4-Dioxane by EPA Method 8270D-SIM Modified.

Field methods can impact the analysis of PFAS. PFAS samples will be collected using dedicated disposable HDPE tubing. If dedicated disposable sampling equipment cannot be used, equipment will be decontaminated by standard two step decontamination using detergent (Alconox) and clean, PFAS-free water. All sources of water used for equipment decontamination will be verified in advance to be PFAS-free through laboratory analysis or certification. Sampling containers for PFAS will be made of HDPE with caps that will not be lined with PTFE. PFAS sampling containers will be kept in separate coolers from all other sampling containers and only regular ice will be used to cool the samples. Field staff conducting the sampling will not wear clothing that contains PTFE material or that has been waterproofed with PFAS material during sampling and all clothing worn will be laundered multiple times. Any bug spray or sunscreen utilized by field staff conducting the sampling will be PFAS free.

The following PFAS will be analyzed by EPA Method 1633:

- PFBA
- PFPeA
- PFBS
- 4:2FTS
- PFHxA
- PFPeS
- PFHpA
- PFHxS
- PFOA
- 6:2FTS
- PFHpS
- PFNA
- PFOS
- PFDA
- 8:2FTS
- PFNS
- NMeFOSAA
- PFUnA
- PFDS
- FOSA
- NEtFOSAA
- PFDoA
- PFTrDA
- PFTA
- HFPO-DA
- ADONA
- PFDoDS
- 9Cl-PF3ONS

- 11Cl-PF3OUdS
- NMeFOSA
- NEtFOSA
- NMeFOSE
- NEtFOSE
- PFMPA
- PFMBA
- PFEESA
- NFDH
- 3:3FTCA
- 5:3FTCA
- 7:3FTCA

A sampling guide is included in Appendix B. A list of PFAS compounds to be analyzed and associated MDLs is included in Appendix C. York Analytical, an ELAP-certified lab for PFAS by EPA Method 1633, will be performing all PFAS analyses of groundwater. The laboratory standard operating procedures for PFAS analysis is included in Appendix D.

3.9 Soil Vapor Sampling

A total of ten soil vapor samples and one outdoor ambient air sample will be collected as part of this RI. Samples will be collected in accordance with the NYSDOH Soil Vapor Guidance.

A Geoprobe® direct push machine will be used to install the soil vapor sampling probes. At each soil vapor sampling location, access to the subsurface soil will be gained by drilling through the top surface material (concrete or asphalt) using a drill bit. Upon penetration through the surface material, a disposable sampling probe consisting of a 1.5-inch long hardened point and a 6-inch long perforated vapor intake will be installed to a depth of approximately six inches above the groundwater interface.

At the terminal depth of soil vapor locations, the sample probe will be attached to ¼-inch diameter Teflon® tubing and extended to the surface. The borehole above the sampling probe to grade will be sealed using an inert sealant to prevent ambient air mixing with the soil vapor. Ambient air will be purged from the boring hole by attaching the surface end of the ¼-inch diameter Teflon® tube to an air valve and then to a vacuum pump. The vacuum pump will remove no more than one to three volumes of air (volume of the sample probe and tube) prior to sample collection. The flow rate for both purging and sample collection will not exceed 0.2 liters per minute.

The soil vapor samples will be first screened for VOCs using a PID. A tracer gas (helium) will be used in accordance with the NYSDOH protocols to verify the integrity of the soil vapor probe seal. Helium will be used as the tracer gas and a bucket will serve to keep it in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. Although there is an allowable amount of tracer gas that can be detected as per the NYSDOH SVI Guidance, if the tracer sample results show any presence of the tracer gas, the probe seals will be adjusted to prevent infiltration which would result in the generation of inaccurate (likely biased low) results.

A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone and chain of custody.

Soil vapor samples will be collected in laboratory-supplied and batch-certified 6-liter Summa canisters using eight-hour regulators. All samples will be sealed, labeled, and placed in a secure container for delivery to a NYSDOH ELAP-certified analytical laboratory. All soil vapor samples will be analyzed for EPA Method TO-15 VOCs.

3.10 Ambient Air Sampling

All samples will be collected in accordance with the NYSDOH Soil Vapor Guidance. Sample locations may be adjusted based on field observations or conditions.

One outdoor ambient air sample will be collected as part of this RI. The outdoor ambient air sample will be collected from breathing height (three to five feet above the ground surface) from an upgradient sampling location. The sampling flow rate will not exceed 0.2 liters per minute (L/min). Sampling will occur for a duration of eight hours. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

The ambient air sample will be collected in a laboratory-supplied and batch-certified 6-liter Summa canister using an eight-hour regulator and will be sealed, labeled, and placed in a secure container for delivery to a NYSDOH ELAP-certified analytical laboratory. The sample will be analyzed for EPA Method TO-15 VOCs.

3.11 Analytical Methods/Quality Assurance Summary Table

A summary of the analytical methods and quality assurance methods are included in Table 1, below.

Table 1
Analytical Methods/Quality Assurance Summary

Matrix	Proposed Samples	QA/QC Samples				Total # Samples	Analytical Parameters	Methods	Preservative	Holding Times	Container
		TB	FB	DUP	MS/MSD						
Soil	66	4	4	4	4 / 4	86	VOCs	8260C	Cool to 4°C, No Headspace	14 days	(3) Encore samplers
	66	0	4	4	4 / 4	82	SVOCs	8270D	Cool to 4°C		(1) 4-oz amber glass bottle
	66	0	4	4	4 / 4	82	Pesticides, Herbicides	8081B, 8151A	Cool to 4°C		
	66	0	4	4	4 / 4	82	PCBs	8082A	Cool to 4°C		
	66	0	4	4	4 / 4	82	TAL Metals, Total Cyanide, Trivalent and Hexavalent Chromium	6010C/ 7471B, 9010C, 3060A	Cool to 4°C	28 days for mercury; 6 months for all others	
	66	0	4	4	4 / 4	82	PFAS	1633	Cool to 4°C	14 days to extraction, 28 days following extraction	(1) 8-oz HDPE bottle
	66	0	4	4	4 / 4	82	1,4-Dioxane	8270	Cool to 4°C	14 days	(1) 4-oz amber glass bottle

Matrix	Proposed Samples	QA/QC Samples				Total # Samples	Analytical Parameters	Methods	Preservative	Holding Times	Container
		TB	FB	DUP	MS/MSD						
Groundwater	18	1	1	1	1 / 1	23	VOCs	8260C	Cool to 4°C, HCL	14 days to analysis	(3) 40 mL amber glass vials
	18	0	1	1	1 / 1	22	SVOCs	8270D	Cool to 4°C		(6) 1 L amber glass bottles
	18	0	1	1	1 / 1	22	Pesticides, Herbicides	8081B, 8151A	Cool to 4°C		
	18	0	1	1	1 / 1	22	PCBs	8082A	Cool to 4°C		
	18	0	1	1	1 / 1	22	Total and Dissolved: TAL Metals, Cyanide, Trivalent and Hexavalent Chromium	6010C/ 7471B, 9010C, 3060A	Cool to 4°C		Total Metals: (1) plastic 500 mL HNO3 preserved bottle; Dissolved Metals: (1) plastic 500 mL unpreserved bottle
	18	0	1	1	1 / 1	22	1,4-Dioxane	8270D-SIM Modified	Cool to 4°C		(2) 1 L amber glass bottle
	18	0	1	1	1 / 1	22	PFAS	1633	Cool to 4°C		(2) 250 mL HDPE bottle
Soil Vapor	10	0	0	1	0 / 0	11	VOCs	TO-15	None	30 days	(1) 6-L Summa
Outdoor Air	1	No QA/QC samples				1					

TB – Trip Blank
FB – Field Blank
DUP – Duplicate

°C – degrees Celsius
mL – milliliter
L – liter

3.12 Decontamination

Where possible, samples will be collected using new, dedicated sampling equipment so that decontamination is not required. All non-dedicated drilling tools and equipment will be decontaminated between boring locations using potable tap water and a phosphate-free detergent (e.g., Alconox) and/or a steam cleaner. All non-dedicated sampling equipment will also have a final rinse with deionized water. Decontamination water will be collected and disposed as investigation-derived waste (IDW).

3.13 Data Review and Reporting

The NYSDEC ASP Category B data package will be validated by an independent data validation subconsultant and a DUSR summarizing the results of the data validation process will be prepared. All reported analytical results will be qualified as necessary by the data validation and will be reviewed and compared against background concentrations and/or applicable New York State criteria:

Soil - Unrestricted Use, Protection of Groundwater, and Restricted Commercial Soil Cleanup Objectives (SCOs) as listed in 6NYCRR Part 375, and PFAS results will be compared to the proposed Unrestricted Use, Protection of Groundwater, and Restricted Commercial SCOs as listed in NYSDEC's April 2023 PFAS Guidelines;
Groundwater – Class GA groundwater standards and guidance values for groundwater as listed in NYSDEC Technical and Operations Guidance Series (TOGS) 1.1.1; and,
Soil Vapor - Ambient Air concentrations

A report documenting the Remedial Investigation will be prepared, and will describe Site conditions and document applicable observations made during the sample collection. In addition, the report will include a description of the sampling procedures, tabulated sample results and an assessment of the data and conclusions. The laboratory data packages, DUSR, geologic logs, well construction diagrams, and field notes will be included in the report as appendices. All data will also be submitted electronically to NYSDEC via the Environmental Information Management System (EIMS) in EqUIS format.

Appendix A

Resumes

Ashley Platt
Senior Environmental Scientist

PROFESSIONAL PROFILE

Ms. Ashley Platt is an environmental scientist with nine years of environmental consulting experience in the New York metropolitan area and specializing in brownfield redevelopment. She has experience in the preparation of various reports for regulatory compliance with local, State, and Federal entities, including Remedial Investigation Work Plans, Remedial Investigation Reports, Remedial Action Work Plans, Final Engineering Reports, and Site Management Plans. She also has an extensive field background which includes soil, groundwater, soil vapor and indoor air sampling and remediation, remedial oversight and installation of remedial systems, including soil vapor extraction systems and sub-slab depressurization systems. Ms. Platt has worked on projects from inception through investigation, remediation, and closure in the New York State Brownfield Cleanup Program and the New York City E-Designation Program.

CREDENTIALS AND PROFESSIONAL HONORS

P.S.M., Environmental Sciences, Stockton University, New Jersey (2016)
B.S., Biology, Minors in Chemistry and Business Studies, Stockton University, New Jersey (2014)

CONTINUING EDUCATION AND TRAINING

OSHA 30-Hour Construction Safety Training (2019)
Hazardous Waste Operations and Emergency Response 40-Hour Certification (2016; refreshers 2017, 2018, 2019, 2020, 2021, 2022, 2023, and 2024)
Hazardous Waste Operations and Emergency Response 8-Hour Supervisor Training (2017)
First Aid and CPR Certified (2016)

RELEVANT EXPERIENCE

New York State Brownfield Cleanup Program, 36-08 Review Avenue, Long Island City, Queens, New York

Assisted in guiding the client into the Brownfield Cleanup Program at the investigation stage. Assisted in the preparation of a Remedial Investigation Work Plan and performed an integral role in the implementation of the Remedial Investigation, including oversight during soil boring, monitoring well, and soil vapor point installation; collection of soil, groundwater, soil vapor, indoor air, and oil samples; and, implementation of a community air monitoring plan. Coordinated with tenants of the site buildings to arrange access to perform the Remedial Investigation. Served an integral role in the preparation of a Remedial Investigation Report, electronic data deliverables, and Remedial Action Work Plan.

New York State Brownfield Cleanup Program, 555 West 22nd Street, West Chelsea, Manhattan, New York

Performed remedial oversight during redevelopment activities, including daily oversight of bulk excavation and soil/fill disposal offsite, implementation of a community air monitoring plan, and collection of post-remedial endpoint samples. Assisted in the preparation of a Final Engineering Report and Site Management Plan and the attainment of a Certificate of Completion. A mixed Track 2 and Track 4 cleanup was obtained. Assisted in the preparation of annual Periodic Review Reports following issuance of the Certificate of Completion.

New York City Voluntary Cleanup Program, Greenport II South, Far Rockaway, Queens, New York

Assisted in the preparation of a Phase I Environmental Site Assessment. Assisted in the preparation of a Remedial Investigation Work Plan and Remedial Investigation Report to address New York City E-Designation and Voluntary Cleanup Program requirements. Served an integral role in the preparation of a Remedial Action Work Plan and alternatives analysis and management of the remedial action. Prepared and submitted daily reports to the New York City Mayor's Office of Environmental Remediation for

compliance with the New York City Voluntary Cleanup Program. Assisted in the preparation of a Remedial Action Report and obtained a Track 1 Cleanup. As a result of the Remedial Action conducted at the property, the new development was awarded a 2022 Big Apple Brownfield Award for Community Space.

New York State Brownfield Cleanup Program, 147-35 95th Avenue, Jamaica, Queens, New York
Assisted in the design and implementation of a Remedial Investigation and waste characterization sampling of soil. Served an integral role in guiding the client into the Brownfield Cleanup Program at the remediation stage, including the preparation of a Brownfield Cleanup Program Application, Remedial Investigation Report, Remedial Action Work Plan, and alternatives analysis. Coordinated with State and City agencies for the satisfaction of air, noise, and hazardous waste requirements. Managed the project during implementation of the Remedial Action, including coordination to obtain disposal facility approvals for disposal of soil/fill offsite, preparation and submission of daily and monthly reports to the New York State Department of Environmental Conservation, coordination with the New York State Department of Environmental Conservation for approval to import various fill materials and reuse soil onsite as backfill, and coordination for changes to the sub-slab depressurization system design. Served an integral role in the preparation of a Final Engineering Report, Site Management Plan, and electronic data deliverables.

New York State Brownfield Cleanup Program, 965 Mamaroneck Avenue, Village of Mamaroneck, New York
Assisted in guiding the client into the Brownfield Cleanup Program at the remediation stage. Assisted in the preparation of a Remedial Investigation Work Plan and Supplemental Remedial Investigation Work Plans and performed an integral role in the implementation of the Remedial Investigation, including oversight during soil boring, monitoring well, and soil vapor point installation; collection of soil, groundwater, soil vapor, and indoor air samples; and, implementation of a community air monitoring plan. Coordinated with offsite property owners to complete soil vapor and indoor air sampling offsite. Served an integral role in the preparation of a Remedial Investigation Report, electronic data deliverables, and a Remedial Action Work Plan and alternatives analysis.

New York State Brownfield Cleanup Program, 2921 Westchester Avenue, Pelham Bay, Bronx, New York
Performed an integral role in the implementation of a due diligence investigation, including the installation of soil borings and monitoring wells and the collection of soil, groundwater, and indoor air samples. Assisted in guiding the client into the Brownfield Cleanup Program at the investigation stage. Assisted in the preparation of a Remedial Investigation Work Plan and performed an integral role in the implementation of the Remedial Investigation, including oversight during soil boring, monitoring well, and soil vapor point installation; collection of soil, groundwater, soil vapor, and indoor air samples; and, implementation of a community air monitoring plan. Coordinated with offsite tenants of the Site building to arrange access for sampling during due diligence and Remedial Investigation activities. Served an integral role in the preparation of a Remedial Investigation Report, electronic data deliverables, and a Remedial Action Work Plan and alternatives analysis.

New York City Voluntary Cleanup Program, 2700 Atlantic Avenue, East New York, Brooklyn, New York
Assisted in the preparation of a Remedial Investigation Report and performed an integral role in guiding the client into the Voluntary Cleanup Program. Performed an integral role in the preparation of a Remedial Action Work Plan and alternatives analysis and management of the remedial action. Prepared and implemented a waste characterization sampling plan and coordinated with the soil broker to obtain approvals to dispose of material offsite. Performed an integral role in the preparation of an Air Quality and Noise Remedial Action Plan.

New York City Voluntary Cleanup Program, 335 Ralph Avenue, Bedford Stuyvesant, Brooklyn, New York
Assisted in the preparation of a Remedial Investigation Work Plan and Remedial Investigation Report and performed an integral role in guiding the client into the Voluntary Cleanup Program. Performed an integral role in the preparation of a Remedial Action Work Plan and alternatives analysis, a Noise Remedial Action Plan, and management of the remedial action. Coordinated with the client, general contractor, and City agency to resolve issues related to importation of fill materials to the Site. Performed an integral role in the preparation of a Remedial Action Report.

New York City Voluntary Cleanup Program, Gallery Row, West Chelsea, Manhattan, New York
Performed remedial oversight during redevelopment activities over five tax lots, including daily oversight of bulk excavation and soil/fill disposal offsite, implementation of a community air monitoring plan, collection of post-remedial endpoint samples, and installation of a passive sub-slab depressurization system. Assisted in the preparation of a Remedial Action Report and the attainment of a Notice of Satisfaction for hazardous waste requirements.

New York State Brownfield Cleanup Program, Teitelbaum Dry Cleaner, Long Island City, Queens, New York
Performed an integral role in the preparation of a Remedial Investigation Report, Remedial Action Work Plan, and alternatives analysis. Assisted in the design of a remedial approach for the site building that included source removal, groundwater injections, and a retro-fitted sub-slab depressurization system. Performed remedial oversight during remedial action activities, including installation of a soil vapor extraction system, a retro-fitted sub-slab depressurization system, injection wells and groundwater injections.

New York City E-Designation Program, 2856 Webster Avenue, Bedford Park, Bronx, New York
Performed an integral role in the management of the remedial action, including preparing and submitting daily reports to NYC OER, coordinating soil reuse approvals for backfill onsite, and coordinating Petroleum Bulk Storage notifications and management of the disposal of abandoned underground storage tanks. Performed an integral role in the preparation of a Remedial Action Report and achieved a Track 4 cleanup.

New York State Brownfield Cleanup Program, 340 Myrtle Avenue, Fort Greene, Brooklyn, New York
Performed an integral role in the implementation of a Phase II Environmental Site Investigation to meet E-Designation requirements, including the installation of soil borings, monitoring wells, and soil vapor points and the collection of soil, groundwater, and sub-slab soil vapor samples. Assisted in guiding the client into the Brownfield Cleanup Program at the investigation stage. Assisted in the preparation of a Remedial Investigation Work Plan and managed the implementation of the Remedial Investigation. Served an integral role in the preparation of a Remedial Investigation Report, electronic data deliverables, Noise Remedial Action Plan, and a Remedial Action Work Plan and alternatives analysis.

Alana M. Carroll, PG
Senior Project Manager

PROFESSIONAL PROFILE

Ms. Alana Carroll is a professional geologist with experience managing a variety of environmental consulting projects in the New York metropolitan area and specializing in remedial investigations, conceptual site modeling, and remedial design and implementation. She provides analytical, technical, and regulatory guidance to clients, including developers and environmental attorneys, on a variety of projects in various stages of investigation, remediation, and redevelopment. Ms. Carroll has managed projects from inception through investigation, remediation, and closure in the New York State Brownfield Cleanup Program, the New York State Department of Environmental Conservation (NYSDEC) Spills and Voluntary Cleanup Programs, the New York State Superfund Program, and the New York City E-Designation Program.

CREDENTIALS AND PROFESSIONAL HONORS

New York State Licensed Professional Geologist #000979
Adjunct Professor, Manhattan College, School of Engineering
M.A., Earth and Environmental Sciences, Brooklyn College, New York
B.S., Geology, Hofstra University, Uniondale, New York

CONTINUING EDUCATION AND TRAINING

OSHA 10-Hour Construction Training (2015)
Hazardous Waste Operations and Emergency Response 40-Hour Certification
(2004; refreshers 2005, 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014, and 2015)
First Aid and CPR Certified (2012)
Amtrak Contractor Safety Training (2010 and 2011)

PROFESSIONAL AFFILIATIONS

Member of Geologic Society of America
Member of New Partners for Community Revitalization

RELEVANT EXPERIENCE

New York State Brownfield Cleanup Program, Former West 18th Street MGP Site, Block 690, Lots 20 and 29, West Chelsea, Manhattan, New York—Successfully guided the client into the Brownfield Cleanup Program at the remediation stage. Prepared detailed remedial cost estimates for several redevelopment scenarios. Assisted in negotiating cleanup costs on behalf of the developer with the entity responsible for onsite contamination from former manufactured gas plant (MGP) operations. Designed and managed a pre-design investigation that delineated onsite coal tar impacts and differentiated petroleum impacts. Served on a team that designed an *in situ* stabilization treatability study. Prepared the Remedial Action Work Plan and Alternatives Analysis that included the excavation and removal of coal tar source material within two MGP gas holders and the encapsulation of residual coal tar. Performed an essential role on the construction and design team, coordinating with the structural, foundation, mechanical, and architectural contractors.

New York State Brownfield Cleanup Program, 520 West 28th Street, West Chelsea, Manhattan, New York—Managed several investigations to address New York State Spills, New York City E-Designation, and New York State Brownfield Cleanup programs. Prepared scopes of work to address requirements of both State and City regulatory agencies. Served as an essential member of the construction and design team, coordinating with the structural, foundation, mechanical, and architectural contractors. Managed access with adjacent property owners for full-scale excavation. Coordinated with State and City agencies for the satisfaction of air, noise, and hazardous waste requirements. Coordinated and managed the characterization and disposal of over 35,000 tons of hazardous material and historic fill. Designed and managed the remedial action necessary to obtain a successful Track 1 Cleanup. Assisted in negotiating a nuanced approach to support excavation that allowed for a Track 1 Cleanup. Prepared the final engineering report that expedited the certificate of completion.

New York State Brownfield Cleanup Program, Teitelbaum Dry Cleaner, Long Island City, New York—Designed and managed multiple onsite and offsite investigations to address NYSDEC and New York State Department of Health (NYSDOH) regulatory requirements with respect to chlorinated solvent impacts to groundwater and soil vapor. Designed and managed chlorinated solvent plume delineation and remediation in both groundwater and soil vapor. Prepared a technical memorandum on the fate and transport of the onsite chlorinated solvent groundwater plume that established limited liability for downgradient impacts and identified a secondary source. Coordinated with multiple adjacent parties for access. Designed a remedial approach for the site building that included source removal, groundwater injection, and a retro-fitted sub-slab depressurization system (SSDS).

Confidential Project, Steuben County, NY—Performed a forensic review and analysis of environmental records associated with five parcels of land that the State deemed as illegal solid waste dumps. Prepared and presented two technical arguments to NYSDEC and NYSDOH detailing illegal dumping, historic fill material, human health exposure pathways, bioavailability of historic fill constituents and remedial alternatives. Designed a full-scale remedial investigation of soil, groundwater and sediments for five parcels of historically industrial land.

New York City Voluntary Cleanup Program, Gallery Row, West Chelsea, Manhattan, New York—Managed multiple investigations over five tax lots to address New York City E-Designation and Voluntary Cleanup Program requirements. Designed a remedial action that incorporates a phased and targeted excavation below Highline Park. Coordinated with State and City agencies for the satisfaction of air, noise, and hazardous waste requirements. Served as an integral part of the construction and design team.

New York State Brownfield Cleanup Program, Former Nu-Brite Dry Cleaner, 1299 First Avenue, East Side, Manhattan, New York—Designed and managed multiple investigations to address onsite chlorinated solvent impacts to soil, groundwater, and soil vapor. Site challenges included investigation and remedial action within existing, occupied building sites. Designed and managed a bedrock fracture investigation to address potential impacts to bedrock. Designed and managed offsite delineation of chlorinated solvent plume in soil vapor. Directed multiple offsite soil vapor investigations within adjacent properties; assisted in negotiating several nuanced access agreements. Managed an onsite interim remedial measure including the installation of a retro coat vapor barrier and retro-fitted SSDS within the site building.

New York State Brownfield Cleanup Program, 34th Street and 42nd Street, West Side, Manhattan, New York—Designed and managed multiple investigations to address New York State Spills and Brownfield Cleanup programs. Prepared scopes of work to address requirements of both state regulations and those agreed to by the former owner. Coordinated

with NYSDEC to modify scopes based on field observations and limitations, which resulted in not having to mobilize for additional investigations. Coordinated with multiple entities for access to perform investigations, including Javits Convention Center, Amtrak, New York City Department of Transportation, Metropolitan Transit Authority, and their contractors. Developed a three-phase analysis plan with the laboratory to determine the minimum required extent of excavation next to an Amtrak line while limiting analytical costs, decreasing in the extent of excavation, and lowering disposal and structural support requirement costs.

New York State Brownfield Cleanup Program, 388 Bridge Street, Downtown Brooklyn, New York—Designed and managed all onsite and offsite investigations of soil, soil gas, groundwater, and indoor air, including coordination of staff and subcontractors. Prepared investigation reports for submittal to client, project team, NYSDEC, and NYSDOH. Participated in project team decision making with clients, lawyers, construction manager, and other consultants. Managed New York City Transit approvals for subsurface investigations near subway lines. Coordinated offsite access in residences, commercial spaces, and a private school. Participated in soil vapor extraction pilot test implementation and reporting. Assisted with implementation of an offsite SSDS in an existing building; activities included system design/layout, installation oversight, testing, and long-term operation and maintenance. Responsible for NYSDEC/NYSDOH coordination and reporting for all investigations. Tracked project activities for inclusion in NYSDEC/NYSDOH programmatic submittals, including monthly reports and remedial schedules.

New York Department of Environmental Remediation, Class 2 State Superfund, Laurel Hill Site, Queens, New York—Managed multiphase, multiparcel project involving design, installation, and ongoing operation, maintenance, and monitoring of six remedial caps. Site challenges included the division of the site into individual parcels that were independent of one another; subsequently, each parcel had a stormwater management design individual to the surrounding parcels. Other challenges included the site's position in a wetlands area fronting Newtown Creek, and working with the New York City Department of Transportation to facilitate its schedule for the adjacent Kosciusko Bridge restoration.

New York State Brownfield Cleanup Program, Willets Point Development, Queens, New York—Managed the Brownfield Cleanup Program application and Phase I environmental site assessment effort for 45 parcels of industrialized land. Coordinated with multiple interested parties, including New York City Department of Housing Preservation and Development and the Economic Development Corporation for access and contracting.

New York State Brownfield Cleanup Program, Uniforms for Industry, Queens, New York—Designed and managed an alternative approach to the offsite soil vapor intrusion investigation. Utilized soil vapor modeling to evaluate potential human health risks and migration probabilities. Provided support for the design of a retrofitted passive venting system.

New York State Spills Program, Gotham Center, Queens, New York—Responsible for proposal and budget development, subcontractor selection and coordination, negotiation, and preparation of subcontractor terms and agreements, budget, and invoice review for a comprehensive subsurface investigation. Prepared and implemented scope of work for delineation of soil contamination and calculation of contaminant mass estimates. Subsequent to interpretation of site data and subgrade characteristics, developed and presented remedial alternatives and associated costs for internal and client project teams. Prepared remedial investigation report in coordination with the New York City Economic Development Corporation and the client for submittal to state regulators.

Mohamed Ahmed, Ph.D., C.P.G.
Sr. Geologist/Principal

Experience Summary

Mohamed Ahmed is a certified professional geologist with nearly 23 years of experience in the New York City metropolitan area. He has designed and implemented subsurface investigations and is proficient in groundwater modeling, design of groundwater treatment systems and soil remediation. He has managed numerous projects focused on compliance with the New York State Brownfield Cleanup and Spills programs and the New York City "e" designation program. Dr. Ahmed also has extensive experience in conducting regulatory negotiations with the New York State Department of Environmental Conservation, the NYC Office of Housing Preservation and Development, and the Mayor's Office of Environmental Remediation.

Selected Project Experience

Willoughby Square, Downtown Brooklyn
As Project Manager, directs all regulatory interaction and investigation on this joint public-private sector redevelopment that will include a public park and four-level underground parking garage. Prepared the remedial investigation work plan and remedial action work plan, conducted investigation activities and waste characterization, and negotiated with the NYC Department of Environmental Protection and the Mayor's Office of Environmental Remediation to transition the site into the NYC Voluntary Cleanup Program.

School Facility, Borough Park, Brooklyn
Managed all regulatory agency coordination, work plan and report preparation and remedial oversight; worked with OER to determine measures to retroactively address the hazardous materials and air quality E-designations on a previously constructed school building and prepared supporting documentation to justify the use of electrical units rather than natural gas.

LGA Hotel Site, East Elmhurst, Queens
Project manager for all work conducted at this former gasoline service station which is being remediated under the NYS Brownfield Cleanup Program; technical oversight of work plans, reports, and design and implementation of field and soil disposal characterization.

436 10th Avenue, Manhattan
As project manager and technical lead, assisted client in developing remedial cost estimates used for property transaction, developed regulatory strategy to address NYS Spills and NYC E-designation requirements, and currently overseeing remedial activities which include removal and disposal of petroleum-contaminated bedrock and dewatering and disposal of impacted groundwater.

Brownfield Cleanup Program Site, Downtown Brooklyn
Managed investigation and remediation under the BCP program for a proposed mixed-use development; designed the remedial investigation and prepared the remedial action work plan which includes an SVE system monitored natural attenuation. Prepared remedial cost

estimates for several scenarios. The project will include a 53-story mixed-use structure and parking garage.

Queens West Development, Long Island City
Directed project team and subcontractors for soil investigation/remediation studies on multiple properties; provided technical support for negotiations with NYSDEC during investigation and remediation.

Former Creosote Site, Long Island City
Designed and implemented a complex investigation to assess the nature and extent of historic creosote contamination at this former industrial site; conducted studies to optimize recovery of LNAPL and DNAPL and developed strategies using bioremediation and natural attenuation in conjunction with conventional remedial approaches. Performed pilot tests for soil vapor extraction system design and coordinated with NYSDEC and NYSDOH to implement sub-slab soil vapor sampling.

NYSDEC Spill Site – Far West Side, Manhattan
Developed a detailed remedial cost estimate for to support client negotiations with a major oil company. The estimate included costs pertaining to: chipping, removal and disposal of petroleum-impacted bedrock; removal/disposal of recycled concrete; costs for dewatering and disposal of impacted groundwater during construction; and design and installation of a vapor barrier below the redevelopment.

Active Industrial Facility, Newburgh, New York
Designed remedial investigation of soil and groundwater contaminated with trichloroethane; performed soil vapor pilot test and pump test to aid in design of soil and groundwater remediation alternatives; conducted sub-slab vapor sampling in accordance with NYSDOH guidance.

Former Dry Cleaning Facility, New York City
Conducted soil and groundwater investigations, designed and installed a soil vapor extraction system and performed extensive testing of indoor air. Negotiated the scope of the RI and IRM with NYSDEC.

Waterfront Redevelopment, Yonkers, NY
Designed and performed geophysics survey of six parcels to determine locations of subsurface features; supervised test pit excavation to confirm geophysics results and evaluate and classify soil conditions prior to development activities.

Prince's Point, Staten Island, New York
Performed soil, groundwater and sediment sampling to delineate the extent of contamination; used field-screening techniques to control analytical costs and supervised soil excavation and disposal.

Apartment Complex, New York City, New York
Coordinated with Con Edison, the owner of the adjacent property and NYSDEC to determine oil recovery protocol; assessed hydrogeological conditions and conducted pilot tests to design cost-effective recovery system; designed and supervised installation of recovery system.

Publications

"Impact of Toxic Waste Dumping on the Submarine Environment: A Case Study from the New York Bight". Northeastern Geology and Environmental Sciences, V. 21, No. 12, p. 102-120. (With G. Friedman)

Metals Fluxes Across the Water/Sediment Interface and the Influence of pH. Northeastern Geology and Environmental Sciences, in press. (With G. Friedman)

"Water and Organic Waste Near Dumping Ground in the New York Bight". International Journal of Coal Geology, volume 43. (With G. Friedman)

Education and Certifications

Ph.D., Earth and Environmental Sciences, Graduate Center of the City of New York (2001)
M.Ph., Earth and Environmental Sciences, City University of New York (1998)
M.A. Geology, Brooklyn College (1993)
B.S. Geology, Alexandria University, Egypt (1982)

American Institute of Professional Geologists, Certified Professional Geologist, 1997-2015

Matthew Carroll, P.E.
Environmental Engineer/Principal

Experience Summary

Matthew Carroll is an environmental engineer experienced in all aspects of site assessment and development and implementation of remedial strategies. He has managed projects from inception through investigation, remediation and closure. His expertise includes soil, soil gas, and groundwater remediation, preparation of cost estimates, remedial alternative selection and design, soil characterization for disposal, field safety oversight, and preparation of work plans and reports to satisfy New York and New Jersey state requirements, and New York City "e" designation and restrictive declarations. Mr. Carroll's project management experience includes past management of a New York City School Construction Authority hazardous materials contract. He is responsible for all engineering work performed by Tenen and is currently the project manager and remedial engineer for several New York State Brownfield Cleanup Program sites.

Selected Project Experience

470 Kent Avenue, Brooklyn
As project manager, supported the client in due diligence and transactional activities, including a Phase I ESA, preliminary site investigation, and remedial cost estimate; preparation of BCP application and remedial investigation work plan. The former manufactured gas plant, sugar refinery and lumberyard will be developed as a mixed-use project with market rate and affordable housing and public waterfront access. As remedial engineer, will be responsible for development of remedial alternatives and oversight and certification of all remedial activities.

500 Exterior Street, Bronx
Designed and implemented the investigation of this former lumberyard and auto repair shop that will be redeveloped as mixed use development with an affordable housing component; prepared BCP application and subsequent work plans and reports. Designed a remedial strategy incorporating both interim remedial measures (IRMs) and remediation during the development phase.

Gateway Elton I and II, Brooklyn
Conducted soil disposal characterization, prepared Remedial Action Work Plans and designed methane mitigation systems for two phases of a nine-building residential development and commercial space; prepared and oversaw implementation of a Stormwater Pollution Prevention Plan during construction and prepared and certified the remedial closure reports for the project.

Affordable Housing Development, Rye, NY
Consultant to the City of Rye on environmental issues pertaining to a county-owned development site slated for an afford senior housing; reviewed environmental documentation for the project and prepared summary memorandum for City Council review; recommended engineering controls to address potential exposure to petroleum constituents, presented report findings at public meetings and currently providing ongoing environmental support during project implementation.

Queens West Development BCP Site, Long Island City, New York
Assistant Project Manager for two developers involved in the site.

- Responsible for oversight of remediation under the New York State Brownfield Cleanup Program
- Technical review of work plans and reports and coordination of the Applicant's investigation and oversight efforts
- Provided input for mass calculations and well placement for an in-situ oxidation remedy implemented on a proposed development parcel and within a City street
- Conducted technical review of work pertaining to a former refinery. Documents reviewed included work plans for characterization and contaminant delineation; pilot test (chemical oxidation); remediation (excavation and groundwater treatment). Managed field personnel conducting full time oversight and prepared progress summaries for distribution to project team
- Following implementation of remedial action, implemented the Site Management Plan and installation/design of engineering controls (SSDS, vapor barrier/concrete slab, NAPL recovery). Also responsible for coordination with NYSDEC

Brownfield Cleanup Program Redevelopment Sites – West Side, New York City
Managed remediation of a development consisting of four parcels being addressed under one or more State and city regulatory programs (NYS Brownfield Cleanup Program, NYS Spills, and NYC "e" designation program). Remediation includes soil removal, screening and disposal; treatment of groundwater during construction dewatering and implementation of a worker health and safety plan and community air monitoring plan (HASP/CAMP)

Managed an additional BCP site, supported the Applicant in coordination with MTA to create station access for the planned No. 7 subway extension; also provided support the client in coordination with Amtrak to obtain access for remedial activities on the portion of the site that is within an Amtrak easement. The site will eventually be used for construction of a mixed-use high-rise building.

BCP Site, Downtown Brooklyn, New York
Performed investigation on off-site properties and designed an SSDS for an adjacent building, retrofitting the system within the constraints of the existing structure; coordinated the installation of the indoor HVAC controls and vapor barrier; provided input to the design of a SVE system to address soil vapor issues on the site.

West Chelsea Brownfield Cleanup Program Site
Designed an in-situ remediation program and sub-slab depressurization system to address contamination remaining under the High Line Viaduct; SSDS design included specification of sub-grade components, fan modeling and selection, identifying exhaust location within building constraints and performance modeling; prepared the Operations Maintenance and Monitoring Plan and Site Management Plan sections pertaining to the SSDS.

Historic Creosote Spill Remediation – Queens, New York – New York State Voluntary Cleanup Program
Modeled contamination volume and extent and prepared mass estimates of historic fill constituents and creosote-related contamination; designed a soil vapor extraction (SVE) and dewatering system to address historic creosote release both above and below static

water table; coordinated with the Metropolitan Transit Authority and prepared drawings to secure approval to drill in the area of MTA subway tunnels.

NYSDEC Spill Site– Far West Side, Manhattan
Provided support to client during negotiations with a major oil company regarding allocation of remedial costs. Worked with client's attorney to develop a regulatory strategy to address the client's obligations under the NYSDEC Spills Program and the New York City "e" designation requirements.

Affordable Housing Site, Brooklyn, New York
Modified prior work plans for soil, soil vapor and groundwater investigation to address requirements for site entry into the New York City Brownfield Cleanup Program. Prepared technical basis for use of prior data previously disallowed by OER. Currently conducting site investigation.

New York City School Construction Authority Hazardous Materials Contract
Provided work scopes and cost estimates, managed and implemented concurrent projects, including Phase I site assessments, Phase II soil, groundwater and soil gas investigations, review of contractor bid documents, preparation of SEQR documents, specifications and field oversight for above- and underground storage tank removal, and emergency response and spill control.

Former Manufacturing Facility, Hoboken, New Jersey
Evaluated site investigation data to support a revision of the current property use to unrestricted; modified the John & Ettinger vapor intrusion model to apply the model to a site-specific, mixed use commercial/residential development; implemented a Remedial Action Work Plan that included the characterization, removal and separation of 9,500 cubic yards of historic fill; designed and implemented a groundwater characterization/delineation program using a real-time Triad approach; designed and implemented an innovative chemical oxidation technology for the property.

F**ormer Varnish Manufacturer – Newark, New Jersey**
Prepared a Phase I environmental site assessment; implemented soil and groundwater sampling to assess presence of petroleum and chlorinated compounds; prepared alternate cost remediation scenarios for settlement purposes and implemented a groundwater investigation plan, including pump tests and piezometer installation to assess the effect of subsurface utilities and unique drainage pathways upon contaminant transport.

Education and Certifications

Professional Engineer, New York
Bachelor of Engineering, Environmental; Stevens Institute of Technology, 2002
Bachelor of Science, Chemistry, New York University, 2002
Technical and Regulatory Training in Underground Storage Tanks, Cook College, Rutgers University, 2006

L.A.B. Validation Corp., 14 West Point Drive, East Northport, New York 11731

Lori A. Beyer

SUMMARY: General Manager/Laboratory Director with a solid technical background combined with Management experience in environmental testing industry. Outstanding organizational, leadership, communication and technical skills. Customer focused, quality oriented professional with consistently high marks in customer/employee satisfaction.

EXPERIENCE:

1998-Present L.A.B. Validation Corporation, 14 West Point Drive, East Northport, NY
President
- Perform Data Validation activities relating to laboratory generated Organic and Inorganic Environmental Data.

1998-Present American Analytical Laboratories, LLC. 56 Toledo Street, Farmingdale, NY
Laboratory Director/Technical Director
- Plan, direct and control the operation, development and implementation of programs for the entire laboratory in order to meet AAL's financial and operational performance standards.
- Ensures that all operations are in compliance with AAL's QA manual and other appropriate regulatory requirements.
- Actively maintains a safe and healthy working environmental that is demanded by local laws/regulations.
- Monitors and manages group's performance with respect to data quality, on time delivery, safety, analyst development/goal achievement and any other key performance indices.
- Reviews work for accuracy and completeness prior to release of results to customers.

1996-1998 Nytest Environmental, Inc. (NEI) Port Washington, New York
General Manager
- Responsible for controlling the operation of an 18,000 square foot facility to meet NEI's financial and operational performance standards.
- Management of 65 FTEs including Sales and Operations
- Ensure that all operations are in compliance with NEI's QA procedures
- Ensures that productivity indicators, staffing levels and other cost factors are held within established guidelines
- Maintains a quantified model of laboratory's capacity and uses this model as the basis for controlling the flow of work into and through the lab so as to ensure that customer requirements and lab's revenue and contribution targets are achieved.

1994-1996 Nytest Environmental, Inc. (NEI) Port Washington, New York
Technical Project Manager
- Responsible for the coordination and implementation of environmental testing programs requirements between NEI and their customers
- Supervise Customer Service Department
- Assist in the development of major proposals
- Complete management of all Federal and State Contracts and assigned commercial contracts
- Provide technical assistance to the customer, including data validation and interpretation
- Review and Implement Project specific QAPP's.

1995-1996 Nytest Environmental, Inc. (NEI) Port Washington, New York
Corporate QA/QC Officer
- Responsible for the implementation of QA practices as required in the NJDEP and EPA Contracts
- Primary contact for NJDEP QA/QC issues including SOP preparation, review and approval
- Responsible for review, verification and adherence to the Contract requirements and NEI QA Plan

1992-1994 Nytest Environmental, Inc. (NEI) Port Washington, New York
Data Review Manager
- Responsible for the accurate compilation, review and delivery of analytical data to the company's customers. Directly and effectively supervised a department of 22 personnel.
- Managed activities of the data processing software including method development, form creation, and production
- Implement new protocol requirements for report and data management formats
- Maintained control of data storage/archival areas as EPA/CLP document control officer

1987-1991 Nytest Environmental, Inc. (NEI) Port Washington, New York
Data Review Specialist
- Responsible for the review of GC, GC/MS, Metals and Wet Chemistry data in accordance with regulatory requirements
- Proficient with USEPA, NYSDEC, NJDEP and NEESA requirements
- Review data generated in accordance with SW846, NYSDEC ASP, EPA/CLP and 40 CFR Methodologies

1986-1987 Nytest Environmental, Inc (NEI) Port Washington, New York
GC/MS VOA Analyst

EDUCATION:

1982-1985 State University of New York at Stony Brook, New York; BS Biology/Biochemistry
1981-1982 University of Delaware; Biology/Chemistry
5/91 Rutgers University; Mass Spectral Data Interpretation Course, GC/MS Training
8/92 Westchester Community College; Organic Data Validation Course
9/93 Westchester Community College; Inorganic Data Validation Course

Westchester Community College
Professional Development Center

Awards this Certificate of Achievement To

LORI BEYER

for Successfully Completing

ORGANIC DATA VALIDATION COURSE (35 HOURS)

Dr. John Samuelian

Date AUGUST 1992

Assistant Dean
Professional Development Center

President

The Professional Development Center

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

Westchester Community College
Professional Development Center

Awards this Certificate of Achievement To

LORI BEYER

for Successfully Completing

INORGANIC DATA VALIDATION

Instructor: Dale Boshart

Date MARCH 1993

Assistant Dean
Professional Development Center

President

The Professional Development Center

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233

Thomas C. Jorling
Commissioner

July 8, 1992

Ms. Elaine Sall
Program Coordinator
Westchester Community College
Valhalla, NY 10595-1698

Dear Elaine,

Thank you for your letter of June 29, 1992. I have reviewed the course outline for organic data validation, qualifications for teachers and qualifications for students. The course that you propose to offer would be deemed equivalent to that which is offered by EPA. The individuals who successfully complete the course and pass the final written exam would be acceptable to perform the task of organic data validation for the Department of Environmental Conservation, Division of Hazardous Waste Remediation.

As we have discussed in our conversation of July 7, 1992, you will forward to me prior to the August course deadline, the differences between the EPA SOW/90 and the NYSDEC ASP 12/91. You stated these differences will be compiled by Mr. John Samulian.

I strongly encourage you to offer an inorganic data validation course. I anticipate the same list of candidates would be interested in an inorganic validation course as well, since most of the data to be validated consists of both organic and inorganic data.

Thank you for you efforts and please contact me if I can be of any further assistance.

Sincerely,

Maureen P. Serafini

Maureen P. Serafini
Environmental Chemist II
Division of Hazardous Waste
Remediation

The Professional
Development Center
AT
WESTCHESTER COMMUNITY COLLEGE

914 285-6619

October 2, 1992

Ms. Lori Beyer
3 sparkill Drive
East Northport, NY 11731

Dear Ms. Beyer:

Congratulations upon successful completion of the Organic Data Validation course held August 17 - 21, 1992, through Westchester Community College, Professional Development Center. This course has been deemed by New York State Department of Environmental Conservation as equivalent to EPA's Organic Data Validation Course.

Enclosed is your Certificate. Holders of this Certificate are deemed competent to perform organic data validation for the New York State DEC Division of Hazardous Waste Remediation.

The Professional Development Center at Westchester Community College plans to continue to offer courses and seminars which will be valuable to environmental engineers, chemists and related personnel. Current plans include a TCLP seminar on November 17th and a conference on Environmental Monitoring Regulations on November 18th.

We look forward to seeing you again soon at another environmental program or event. Again, congratulations.

Very truly yours,

Passing Grade is 70%
Your Grade is 99%

Elaine Sall
Program Coordinator

ES/bf

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

The Professional
Development Center
AT
WESTCHESTER COMMUNITY COLLEGE

914 285-6619

June 21, 1993

Dear Ms. Beyer:

Enclosed is your graded final examination in the Inorganic Data Validation course you completed this past March. A score of 70% was required in order to receive a certificate of satisfactory completion. Persons holding this certificate are deemed acceptable to perform Inorganic Data Validation for the New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation.

I am also enclosing a course evaluation for you to complete if you have not already done so. The information you provide will greatly aid us in structuring further courses. We wish to make these course offerings as relevant, targeted and comprehensive as possible. Your evaluation is vital to that end.

Congratulations on your achievement. I look forward to seeing you again at another professional conference or course. We will be co-sponsoring an environmental monitoring conference on October 21, 1993 with the New York Water Pollution Control Association, Lower Hudson Chapter, at IBM's Yorktown Heights, NY site. Information regarding this event will be going out in August.

Very truly yours,

Elaine Sall

Elaine Sall
Program Coordinator

ES/bf

Enclosures

SUNY
WESTCHESTER COMMUNITY COLLEGE
Valhalla, New York 10595

Appendix B

PFAS Field Sampling Guidelines

PFAS Field Sampling Guidelines for Groundwater and Soil

For Waters: 2 x 125 mL Bottles per sample filled to the neck of the bottle

PLEASE READ THESE INSTRUCTIONS PRIOR TO CONDUCTING SAMPLING

Sampling for PFAS for determination using EPA 537m can be challenging due to the prevalence of these compounds in consumer products. The following guidelines reflect current knowledge and are recommended when conducting sampling.

Consider Sampling for PFAS First...

Sample containers for other methods may have PFAS present on their sampling containers which could cross-contaminate your sample(s). We are analyzing down to the low parts-per-trillion (ppt) range so cross-contamination prevention is an important consideration.

SAMPLING

All Sampling done with Nitrile Gloves, provided by YORK

SAMPLE CONTAINERS

All sample containers - PP ONLY (Target list of 21 PFAS) Caps are unlined and made of PP (no Teflon® lined caps) Bottles are Batch Certified to be Target PFAS-free (< Reporting Limit)

FIELD EQUIPMENT

-Must not contain Teflon® (aka PTFE) or LDPE materials

-All sampling materials must be made from stainless steel, HDPE, acetate, silicone, or polypropylene

-No waterproof field notebooks can be used

-No plastic clipboards, binders, or the like

-No adhesives (e.g.Post-It® Notes, Duct tape) can be used

-Sharpies and permanent markers not allowed; regular ball point pens are acceptable

-Aluminum foil must not be used

-Keep PFAS samples in separate cooler, away from sampling containers that may contain PFAS

-Coolers filled with regular ice only - Do not use chemical (blue) ice packs

EQUIPMENT DECON

-"PFAS-free" water (e.g. Poland Spring*)-on-site for decontamination

-Only Alconox and Liquinox can be used for decontamination

* *Poland Spring has been demonstrated to be PFAS -free when freshly opened*

FIELD SAMPLING CLOTHING CONSIDERATIONS

Do not use fabric softener on clothing to be worn in field

Do not used cosmetics, moisturizers, hand cream, or other related products the morning of sampling

Do not use sunscreen or insect repellants

No materials containing Tyvek®

All safety boots made from polyurethane and PVC

No clothing or boots containing Gore-Tex®

Wet weather gear made of polyurethane and PVC only

FOOD CONSIDERATIONS

No food or drink when PFAS Sampling with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area.

SAMPLE CONTAINER HANDLING

-For **AQUEOUS** Samples: Each sample set contains 2 x 125 mL containers. Fill each container to the neck

-For **SOILS**-1 x 250 mL container, FILL HALF WAY ONLY

-No preservative is necessary for this appliction at this time.

-Place closed, labeled Sample bottles into ZipLock bag.

-Dispose of Nitrile gloves in provided waste bag.

-Place in separate cooler from other samples, WET ICE only

-Follow instructions on next page for more detail.

-If you have a Quality Assurance Project Plan follow that guidance

York Analytical Laboratories, Inc. ***Emerging Contaminants Laboratory***
132-02 89th Avenue SUITE 217 Richmond Hill, NY 11418

Rev 2.0 12/20

PFAS -Recommended Field Sampling Guidelines

PLEASE READ INSTRUCTIONS ENTIRELY PRIOR TO SAMPLING EVENT

Sampler should wash hands before wearing nitrile gloves in order to limit contamination during sampling. Each sample set* requires a set of containers to comply with the method as indicated below. **Sample set is composed of samples collected from the same sample site and at the same time.* **A pair of Nitrile gloves is included with each sample Zip-lock bag/bottle set. One Field Blank set per day is provided.**

Note: PP is Polypropylene

Sample Containers	Bottle Type	Preservation
2 Sampling Containers - Empty- per sample-Waters **SOILS- 1 Container-fill only half way**	125 mL PP container-Waters 250 mL PP for Soils	None, Cool <6C
1 PP Bottle with PFAS-free Water for Field Blank	125 mL PP container	None, Cool <6C
1 Field Blank (FRB) - Empty-per sampling day	125 mL PP container	None, Cool <6C
2 - Empty PP bottles for MS/DUP when needed (Soils MS/DUP come from same Bottle)	125 mL PP container	None, Cool <6C

NOTE: Sampling containers for WATERS must be filled to the neck. **SOILS, fill bottle only 1/2 full**

FIELD BLANK and MS/DUP Bottles are labeled with NEON GREEN LABELS

Field blanks are required per sampling event day and the containers have been provided. Follow the instructions below.

Field Blank Instructions:

1. Locate the PFAS Field Blank bottle (empty, labeled) supplied The PFAS Field Blank Water container is pre-filled at YORK with PFAS-free water to transfer to the empty PFAS Field Blank bottle.
2. Locate the empty container labeled "Field Blank" with Neon green labels
3. Open both containers and proceed to transfer contents of the "PFAS FIELD BLANK WATER" container into the "PFAS FIELD BLANK" Bottle
4. Field Blanks to be analyzed must be listed on the Chain-of-Custody.
5. Both the empty Field Blank water container and the filled Field Blank container must be returned to YORK along with the samples taken.

Matrix Spike/ Matrix Dup Instructions: Note: Soil MS/MSD can be from the same container as the sample

1. Locate the PFAS MS and DUP bottles (empty, labeled-NEON GREEN) supplied -normally 1 set per 20 field samples
2. Transfer chosen Field MS /Dup as a normal sample and indicate sample ID on container and on Chain-of-Custody

Sampling Instructions: ALL SAMPLE BOTTLES HAVE NEON YELLOW LABELS

1. Do not overfill or rinse the container. Any sample(s) for Matrix Spike and Matrix Duplicates are treated similarly.
2. Close containers securely. Label legibly and place containers in ZipLoc® bags, and in a separate cooler (no other container types).
3. Ensure Chain-of-Custody and all sample labels contain required information. Place all samples in separate coolers (separate from other samples for different parameters). Place wet ice (bagged) on samples for return to YORK. Samples should be kept at 4°C ±2. Samples must not exceed 10°C during first 48 hours after collection. **Hold time is 14 days.**

York Analytical Laboratories, Inc. ***Emerging Contaminants Laboratory***
132-02 89th Avenue SUITE 217 Richmond Hill, NY 11418

Appendix C

PFAS Compounds to be Analyzed and Associated MDLs

Appendix C

PFAS Compounds to be Analyzed and Associated MDLs

Analyte	Soil MDL (ng/g)	Groundwater MDL (ng/l)
Perfluorobutanoic Acid (PFBA)	0.0504	0.512
Perfluoropentanoic Acid (PFPeA)	0.056	0.428
Perfluorobutanesulfonic Acid (PFBS)	0.0432	0.268
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.0808	0.836
Perfluorohexanoic Acid (PFHxA)	0.0464	0.236
Perfluoropentanesulfonic Acid (PFPeS)	0.0232	0.14
Perfluoroheptanoic Acid (PFHpA)	0.0232	0.16
Perfluorohexanesulfonic Acid (PFHxS)	0.0592	0.192
Perfluorooctanoic Acid (PFOA)	0.052	0.348
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.28	1.08
Perfluoroheptanesulfonic Acid (PFHpS)	0.0368	0.216
Perfluorononanoic Acid (PFNA)	0.0784	0.252
Perfluorooctanesulfonic Acid (PFOS)	0.0792	0.364
Perfluorodecanoic Acid (PFDA)	0.0752	0.324
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.3872	1.244
Perfluorononanesulfonic Acid (PFNS)	0.0424	0.248
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.1	0.436
Perfluoroundecanoic Acid (PFUnA)	0.0512	0.348
Perfluorodecanesulfonic Acid (PFDS)	0.032	0.184
Perfluorooctanesulfonamide (FOSA)	0.0432	0.216
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.0824	0.432
Perfluorododecanoic Acid (PFDoA)	0.0408	0.368
Perfluorotridecanoic Acid (PFTrDA)	0.0528	0.3
Perfluorotetradecanoic Acid (PFTA)	0.1064	0.212
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	0.0984	0.448
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	0.1464	0.504
Perfluorododecane Sulfonic Acid (PFDoDS)	0.0384	0.304
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	0.196	0.66
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	0.1672	0.66
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	0.1	0.348
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	0.112	0.368
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	0.2504	1.88
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	0.5104	0.98
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	0.0408	0.228
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	0.0312	0.212
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	0.0832	0.176
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	0.0952	0.944
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	0.144	1.32
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	0.5048	4.68
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	1.76	3.156

Appendix D

Laboratory Standard Operating Procedures for PFAS Analysis

Standard Operating Procedure

Determination of Target Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous and Solid matrices by Isotope Dilution Analysis by HPLC/MS-MS According to EPA Method 1633 Draft 3

Approvals

Laboratory Director/QA Officer

Krys Trafalski

General Manager

Scott Hall

UNCONTROLLED COPY

Controlled Copy No. PFAS_LCMSMS1633, Rev 1.2-____

Issued to: NA

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1. SCOPE AND APPLICATION

This method is used to identify and quantitate specific PFAS compounds in extracts of non-potable water and solid (soil/sediment) samples using HPLC/MS-MS (High Pressure Liquid Chromatography/Tandem Mass Spectrometry). Currently the compounds (40) that are measured by this methodology are listed in Table 1.0 below.

Table 1.0-Target PFAS

Perfluoroalkyl carboxylic acids		
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTeDA	376-06-7
Perfluoroalkyl sulfonic acids Acid Form		
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluoropentansulfonic acid	PFPeS	2706-91-4
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorononanesulfonic acid	PFNS	68259-12-1
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Fluorotelomer sulfonic acids		
1*H*,1*H*, 2*H*, 2*H*-Perfluorohexane sulfonic acid	4:2FTS	757124-72-4
1*H*,1*H*, 2*H*, 2*H*-Perfluorooctane sulfonic acid	6:2FTS	27619-97-2
1*H*,1*H*, 2*H*, 2*H*-Perfluorodecane sulfonic acid	8:2FTS	39108-34-4
Perfluorooctane sulfonamides		
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-methyl perfluorooctanesulfonamide	NMeFOSA	31506-32-8
N-ethyl perfluorooctanesulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids		
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols		
N-methyl perfluorooctanesulfonamidoethanol	NMeFOSE	24448-09-7
N-ethyl perfluorooctanesulfonamidoethanol	NEtFOSE	1691-99-2
Per- and Polyfluoroether carboxylic acids		
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
4,8-Dioxa-3*H*-perfluorononanoic acid	ADONA	919005-14-4
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Ether sulfonic acids		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7

Fluorotelomer carboxylic acids		
3-Perfluoropropyl propanoic acid	3:3FTCA	356-02-5
2*H*,2*H*,3*H*,3*H*-Perfluorooctanoic acid	5:3FTCA	914637-49-3
3-Perfluoroheptyl propanoic acid	7:3FTCA	812-70-4

The estimated reporting limits (MRL) based upon the preparation/analysis parameters herein at the time of this revision are approximately 2.0 - 25.0 ng/L (ppt) for aqueous samples and 0.5 - 5.0 µg/kg for solids. The linear range for these PFAS can be extended by dilution. These MRLs are based upon a volume of 250 mL - 500 mL extracted for aqueous samples and 2 - 5 g for solids. Please refer to *Appendix 1: Target Compound Reporting Limits* for limits of detection and quantitation based on a 5 g extract and 500 mL extract for soils and waters, respectively. Please note, MDL/LOD values are based on the initial November 2022 study and are subject to change based on ongoing study data. The most up-to-date study data will be kept on file by the Quality Department and readily available in the test code section(s) of Element LIMS.

This method is "performance-based," which means that modifications may be made without additional EPA review to improve performance (e.g., overcome interferences, or improve the sensitivity, accuracy, or precision of the results) *provided that all* performance criteria in this method are met. Requirements for establishing equivalency are in Section 9.1.2 and include 9.1.2.2c. For Clean Water Act (CWA) uses, additional flexibility is described at 40 CFR 136.6. Changes in performance, sensitivity, selectivity, precision, recovery, etc., that result from modifications within the scope of 40 CFR Part 136.6, and Section 9.0 of this method must be documented, as well as how these modifications compare to the specifications in this method. Changes outside the scope of 40 CFR Part 136.6 and Section 9.0 of this method may require prior review or approval.

2. SUMMARY

Environmental samples are prepared and extracted using method-specific procedures. Sample extracts are subjected to cleanup procedures designed to remove interferences. Analyses of the sample extracts are conducted by HPLC-MS/MS in the multiple reaction monitoring (MRM) mode. Sample concentrations are determined by isotope dilution or extracted internal standard quantification (see Section 10.3) using isotopically labeled compounds added to the samples before extraction.

2.1 Extraction

2.1.1 Aqueous samples are spiked with isotopically labeled standards, extracted using solid-phase extraction (SPE) cartridges and undergo cleanup using carbon before analysis.

2.1.2 Solid samples are spiked with isotopically labeled standards, extracted into basic methanol, and cleaned up by carbon and SPE cartridges before analysis.

2.2 Analysis

2.2.1 Extracts are analyzed by HPLC-MS/MS in MRM mode. Extracts contain Non-extracted Internal Standards (NIS) to monitor instrument performance and are used for quantitative analysis.

2.2.2 Individual PFAS analytes are identified through peak analysis of the quantification and confirmation ions (Precursor and product ions) where applicable.

2.2.3 The concentration of each analyte is calculated using the isotope dilution technique. This approach corrects the target analyte concentration based on recovery of isotopic analogues and essentially behave like extracted internal standards (EIS). For QC purposes, the percent recoveries of the isotope dilution analogues are calculated using the integrated peak areas of isotope performance standards, which are added to the final extract and function as traditional internal standards (non-extracted internal standards), exclusively applied to the isotope dilution analogues.

3. DEFINITIONS

3.1 ANALYTICAL SEQUENCE – A set of samples that are analyzed on the same instrument continuously over a period, typically a 24 hours. An analytical sequence may consist of multiple extraction batches and various matrices and is bracketed by method specific quality control analyses.

3.2 CALIBRATION STANDARD (CAL) – A solution of the method analytes, isotope dilution analogues, and isotope performance standards (Internal standards) prepared from primary dilution and stock standards. The calibration standards are used to calibrate the instrument response with respect to analyte concentration.

3.3 CONTINUING CALIBRATION VERIFICATION (CCV) – A calibration standard containing target compounds, isotopic analogues, and internal standards. The CCV is analyzed periodically to verify the accuracy of an existing calibration.

3.4 EXTRACTION BATCH – A set of up to 20 Field Samples (not including quality control samples) extracted together by the same person(s) during a workday using the same lot of standards and reagents.

3.5 FIELD DUPLICATES – Separate samples collected at the same time and sampling location, shipped, and stored under identical conditions. Method precision, including

the contribution from sample collection procedures, is estimated from the analysis of Field Duplicates. Field Duplicates may be used to prepare duplicate QC samples.

3.6 FIELD BLANK (FB) – An aliquot of reagent water free of constituents of concern that is placed in a sample container in the during field sampling and treated as a sample in all respects. This includes shipment to the sampling site, exposure to sampling site conditions, storage, preservation, and all analytical procedures. The purpose of the FB is to determine if method analytes or other interferences are introduced to the sample from shipping, storage, and the field environment.

3.7 ISOTOPE DILUTION ANALOGUES - Isotopically labeled analogues of the method analytes that are added to the sample prior to extraction in a known amount. Note: Not all target PFAS currently have an isotopically labeled analogue. In these cases, an alternate isotopically labeled analogue is used as detailed in this SOP and reference method.

3.8 ISOTOPE DILUTION TECHNIQUE - An analytical technique for measuring analyte concentration using the ratio of the peak area of a native analyte to that of an isotopically labeled analogue. The analogue is added to a sample in a known amount and carried through the entire analytical procedure. The ration is used to determine a correction factor that is applied to the native compound's result.

3.9 ISOTOPE PERFORMANCE STANDARDS (Internal Standards) - Quality control compounds that are added to all standard solutions and extracts in a known amount and used to measure the relative response of the isotopically labelled analogues that are components of the same solution. For this method, the isotope performance standards are three isotopically labeled analogues of the method analytes. The isotope performance standards are indicators of instrument performance and are used to calculate the recovery of the isotope dilution analogues through the extraction procedure. In this method, the isotope performance standards are not used in the calculation of the recovery of the native analytes.

3.10 METHOD BLANK – An aliquot of reagent water to which known quantities of the method analytes and isotope dilution analogues are added. The results of the MBLK verify method performance in the absence of sample matrix.

3.11 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) – Aliquots of field samples that have been fortified with a known concentration of target compounds, prior to sample preparation and extraction, and analyzed to measure the effect of matrix interferences. The use of MS/MSD samples is generally not required in isotope dilution methods because the labeled compounds added to every sample provide more performance data than spiking a single sample in each preparation batch.

3.11 SAMPLE DUPLICATE (DUP) – A duplicate aliquot of a field sample analyzed in the same manner as a parent sample to measure reproducibility.

3.12 LIMIT OF QUANTITATION (LOQ) – The smallest concentration that produces a quantitative result with known and recorded precision and bias. The LOQ shall be set at or above the concentration of the lowest initial calibration standard (the lowest calibration standard must fall within the linear range). Determined by matrix through the entire preparation and analysis process.

3.13 METHOD DETECTION LIMIT (MDL) – The minimum measured concentration of a substance that can be reported with 99% confidence that the measured analyte concentration is distinguishable from method blank results (40 CFR 136, Appendix B).

3.14 MINIMUM LEVEL OF QUANTITATION (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. It may be equivalent to the concentration of the lowest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed. Alternatively, the ML may be established by multiplying the MDL (pooled or not pooled, as appropriate) by 3.18 and rounding the result to the number nearest to 1, 2, or 5 x 10n, where n is zero or an integer (see 68 FR 11770).

3.15 PRECURSOR ION – For the purpose of this method, the precursor ion is the deprotonated molecule ($[M-H]^-$) of the method analyte (except for HFPO-DA, in which the precursor ion is formed by decarboxylation). In MS/MS, the precursor ion is mass selected and fragmented by collisionally activated dissociation to produce distinctive product ions of smaller *m/z*.

3.16 PRIMARY DILUTION STANDARD (PDS) SOLUTION – A solution containing the analytes prepared in the laboratory from stock standard solutions and diluted as needed to prepare calibration solutions and other needed analyte solutions.

3.17 PRODUCT ION – For the purpose of this method, a product ion is one of the fragment ions produced in MS/MS by collisionally activated dissociation of the precursor ion.

3.18 INITIAL CALIBRATION VERIFICATION (ICV) – A calibration standard prepared independently from the primary calibration solutions. For this method, the ICV is a repeat of the entire dilution scheme starting with the same stock materials (neat compounds or purchased stock solutions) used to prepare the primary calibration solutions. Independent sources and separate lots of the starting materials are not required, provided the laboratory has obtained the purest form of the starting materials

commercially available. The purpose of the ICV is to verify the integrity of the primary calibration standards.

3.19 QUANTITATIVE STANDARD - A quantitative standard of assayed concentration and purity traceable to a Certificate of Analysis.

3.20 STOCK STANDARD SOLUTION - A concentrated solution containing one or more method analytes prepared in the laboratory using assayed reference materials or purchased from a reputable commercial source with a Certificate of Analysis.

3.21 TECHNICAL GRADE STANDARD – As defined for this method, a technical-grade standard includes a mixture of the branched and linear isomers of a method analyte. For the purposes of this method, technical-grade standards are used to identify retention times of branched and linear isomers of method analytes.

3.22 ANALYTE – A PFAS compound included in this method. The analytes are listed in Table 1.

3.23 CALIBRATION STANDARD (CS) – A solution prepared from a secondary standard and/or stock solutions and used to calibrate the response of the LC-MS/MS instrument.

3.24 CONTINUING CALIBRATION VERIFICATION (CCV) STANDARD – The mid-point calibration standard that is used to verify calibration.

3.25 CFR – Code of Federal Regulations

3.26 EXTRACTED INTERNAL STANDARD (EIS) QUANTIFICATION – The response of the target compound is compared to the response of the labeled analog of another compound in the same LOC.

3.27 INSTRUMENT SENSITIVITY CHECK – solution used to check the sensitivity of the instrument. The solution contains the native compounds at the concentration of the LOQ.

3.28 IPR – INITIAL PRECISION AND RECOVERY; four aliquots of a reference matrix spiked with the analytes of interest and labeled compounds and analyzed to establish the ability of the laboratory to generate acceptable precision and recovery. An IPR is performed prior to the first time this method is used and any time the method or instrumentation is modified.

3.29 OPR - ONGOING PRECISION AND RECOVERY- – Ongoing precision and recovery standard (OPR); a method blank spiked with known quantities of analytes. The OPR is analyzed exactly like a sample. Its purpose is to ensure that the results produced by the

laboratory remain within the limits specified in this method for precision and recovery. Applies to OPR and LLOPR (low level OPR at **2x** the LOQ level).

3.30 SPE – SOLID PHASE EXTRACTION; a technique in which an analyte is extracted from an aqueous solution or a solid extract by passage over or through a material capable of reversibly adsorbing an analyte. Also termed liquid-solid extraction.

4. INTERFERENCES

LC-MS/MS data from blanks, samples, and spikes must be evaluated for interferences. If any interferences are present, take corrective action if necessary. Do not use aluminum foil because PFAAs can be potentially transferred from the aluminum foil to the glassware. Only aluminum foil rinsed with LC/MS grade methanol can be used where necessary.

4.1 PFAS have been used in a wide variety of manufacturing processes, and laboratory supplies should be considered potentially contaminated until they have been tested and shown to be otherwise. The materials and supplies used during the method validation process have been tested and shown to be clean. These items are listed in the Reagents section.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including DI water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. All items such as these must be routinely demonstrated to be free from interferences (less than 1/2 the Reporting Limit), under the conditions of the analysis by analyzing Method Blanks. Subtracting blank values from sample results is not permitted.

4.3 PTFE products can be a source of PFAS (PFOA) contamination. The use of PTFE in the procedure should be avoided. Polypropylene (PP) or polyethylene (PE, HDPE) products may be used in place of PTFE products to minimize PFOA contamination.

4.3.1 Standards and samples are injected from polypropylene autosampler vials with polypropylene or polyolefin snap caps, once. Multiple injections may be performed on Primers when conditioning the instrument for analysis.

4.3.2 Random evaporation losses have been observed with the polypropylene caps causing high Internal Std. recovery after the vial was punctured and sample re-injected. For this reason, it is best to inject standards and samples once in the analytical sequence, then recap with polyolefin caps for storage.

4.3.2 Teflon-lined screw caps have detected PFAS at low concentrations. Repeated injection from the same Teflon-lined screw cap have detected PFNA at increasing concentration as each repeated injection was performed, therefore, it is best to use polypropylene snap caps.

4.3.3 Aqueous samples should not come in contact with any glass containers or pipettes as PFAS analytes can potentially adsorb to glass surfaces. Standards dissolved in organic solvent may be purchased in glass ampoules. These standards in organic solvent are acceptable and subsequent transfers may be performed using glass syringes and pipets. Following extraction, the eluate must be collected in a polypropylene tube prior to concentration to dryness. Concentration to dryness in glass tubes may cause poor recovery.

4.4 LC/MS grade methanol must be used for all steps where methanol is used in this method. HPLC grade methanol has been demonstrated to be acceptable if tested prior to use.

4.5 Matrix interferences may be caused by contaminants that are co-extracted from a sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the sample.

4.5.1 Co-extracted Organic Material - Under normal HPLC conditions matrix effects due to co-extracted organic material enhanced the ionization of 4:2 FTS appreciably. Total organic carbon (TOC) is a good indicator of humic content of the sample.

4.5.2 Solid phase extraction cartridges may be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. SPE cartridges should be sealed while in storage to prevent ambient contamination of the SPE sorbent.

4.6 Contamination by carryover can occur whenever a high-concentration and low concentration samples are sequentially analyzed. To reduce carryover, the sample syringe in automatically rinsed with solvent between injections. These operations are programmed into the LC multi-sampler system.

4.7 Volumetric glassware and syringes are difficult to clean after being used for solutions containing high levels of PFOA. These items should be labeled for use only with similarly concentrated solutions or verified clean prior to re-use. To the extent possible, disposable labware is used.

4.8 Both branched and linear PFAS isomers can potentially be found in the environment. Linear and branched isomers are known to exist for PFOS, PFOA, PFHxS, and PFBS, based upon scientific literature. We have also seen branched isomers for PFHpA, NMeFOSAA, NEtFOSAA and PFNA. If multiple isomers are present for one of these PFAS they likely are adjacent peaks that completely resolve or not, but usually with a deflection point resolved during peak integration. The later of these peaks matches the retention time of its labeled linear analog. In general, earlier peaks are the branched isomers and are not the result of peak splitting.

Currently, all these species are available as linear isomers. Some available branched and linear reference standards of the technical mixtures for these specific PFAS are used to ensure that all appropriate peaks are included during peak integration. These species currently include PFOA, PFHxS, NMeFOSAA, and NEtFOSAA. These branched isomers elute before the linear isomer and are integrated and reported as total for those species. Others are also included at this time such as those listed in section 7.3.4.

4.9 In an attempt to reduce PFOS bias, it is required that *m/z* 499>80 transition be used as the quantitation transition.

5. SAMPLE HANDLING

5.1 **Aqueous Samples** - samples are collected by our clients in 250 or 500ml HDPE bottles with unlined HDPE or polypropylene caps and filled to the neck. Each sample submitted should be submitted in triplicate-with one used for determination of Suspended solids and possible pre-screening. Sub-sampling should be avoided whenever possible. When historical data are available indicating high levels of PFAS, sub-sampling may be an advisable option.

5.2 **Soil Samples** – samples are collected in wide mouth 125- or 250-mL HDPE bottles with PP unlined caps.

5.3 SAMPLE SHIPMENT AND STORAGE/HOLDING TIMES – Maintain all aqueous samples protected from light at 0 - 6 ºC from the time of collection until shipped to the laboratory. Samples must be shipped as soon as practical with sufficient ice to maintain the sample temperature below 6 ºC during transport. Samples are to be received by the

laboratory within 48 hours of collection. The laboratory must confirm that the sample temperature is 0 - 6 ºC upon receipt. Once received by the laboratory, the samples may be stored at ≤ -20 ºC, or at 0 - 6 ºC, until sample preparation. However, the allowable holding time for samples depends on the storage temperature, as described below:

5.3.1 Aqueous samples may be held in the laboratory for up to 90 days from collection, when stored at ≤ -20 ºC and protected from the light. When stored at 0 - 6 ºC and protected from the light, aqueous samples may be held for up to **28 days**, with the caveat that issues were observed with certain perfluorooctane sulfonamide ethanols and perfluorooctane sulfonamidoacetic acids after **7 days**. These issues are more likely to elevate the observed concentrations of other PFAS compounds via the transformation of these precursors if they are present in the sample.

5.3.2 Solid samples (soils and sediments) may be held for up to 90 days, if stored in the dark at either 0 - 6 ºC or ≤ -20 ºC, with the caveat that samples may need to be extracted as soon as possible (within 7 days) if NFDHA is designated as an important analyte by the customer.

5.4 **SAMPLE EXTRACT HOLDING TIMES** – Store sample extracts in the dark at less than 0 - 4 ºC until analyzed. If stored in the dark at less than 0 - 4 ºC, sample extracts may be stored for up to 90 days, with the caveat that issues were observed for some ether sulfonates after 28 days. These issues may elevate the observed concentrations of the ether sulfonates in the extract over time. Samples may need to be extracted as soon as possible if NFDHA is an important analyte.

6. APPARATUS AND MATERIALS (as listed or demonstrated equivalents)

6.1 250 - 500 mL polypropylene bottles with polypropylene caps. VWR Scientific or equivalent: Part no. 414004-125, 12 pk. Alternate: White PP unlined lid L238WH and 16oz. clarified PP single wall jar 70-400 neck, item J066-Containers and Packaging.com or equivalent.

6.2 Transport Tube: Virgin Polypropylene, White, Plastic, 10 mL Capacity, 16 mm OD, 93 mm Overall Lg, Self-Standing, 250 PK, Item 710Z420, Gamut.com (Grainger), with PP cap or equivalent.

6.3 Graduated cylinders, 50, 100, 250, 500 and 1000mL, Polypropylene, VWR Scientific or equivalent

6.4 Analytical Balance, 0.0001g., checked for accuracy each day of use with Class S weights, certified annually by an outside service.

6.5 Extract concentrators: Organomation Model N-EVAP 112, 24 position concentrator with water batch control and nitrogen supply controls or equivalent

6.6 3.1 Micron in-line filters, Promochrom only

6.7 1.0-2.0 mL polypropylene snap cap vials, Agilent part no. 5182-0567 or equivalent

6.8 Snap caps, polypropylene or olefin, 11 mm, 11/9k, Agilent Part no. 5182-0542

6.9 Solid Phase Extraction Tubes: for EPA 1633: WAX (weak anion exchange mixed mode polymeric sorbent – Phenomenex No. 8B-S038-HCH 200 mg or Waters Oasis 150 mg Cat. # 186002493. Must have a pKa > 8 to remain positively charged during the extraction. Alternate is Agilent Bond Elute WAX 200 mg-cat. No. 5610-2151

6.10 Syringes, Hamilton or equivalent 5.0 µL, 10 µL 25 µL, 100 µL, 250 µL, 500 µL, Teflon free

6.11 Solid Phase Extraction System-automated-Promochrom 8 position autosampler system for 6 mL capacity SPE tubes. System retrofit to remove all PTFE components and replaced with PEEK tubing or PFAS free tubing. Automated bottle rinsing feature required with 3.1 um in line PP filters.

6.12 Nitrogen Evaporation System- TurboVap nitrogen evaporation system operated at less than 55C.

6.13 LC/MS-MS system- Agilent 1260 or 1290 HPLC system interfaced to an Agilent 6470A or 6460C Triple Quadrupole system. The instrument control and qualitative/quantitative software is Mass Hunter versions B.8.0 and B.9.0 or later.

6.13.1 HPLC System-Agilent 1260 or 1290 Infinity II

6.13.1.1 The Agilent 1260 or 1290 Infinity II HPLC system is configured with temperature-controlled column oven compartment. 4 column configuration, temperature controlled (refrigerated) auto sampler

compartments, injection valve, proportioning valves, variable flow controls and variable injection capabilities.

6.13.1.2 The delay column (PFAS and other interference removal) is an Agilent Eclipse Plus C18, 4.6mm x 50 mm, 3.5 um-Part no. 959943-902 or equivalent.

6.13.1.3 The analytical column is a Restek Raptor C18 part no. 9304252 50mm x 2.1 mm ID, 1.8 u particle size or equivalent.

6.13.2 Agilent LC/MS-MS- Agilent 6470AAR/6460C

6.14.2.1 Agilent model 6470AAR/6460C triple Quadrupole system with Agilent Jet Stream ESI source. UHP nitrogen is used as cell gas and High purity nitrogen is delivered for the sheath gas from a Peak Scientific nitrogen generator system.

6.14 Vortex Mixer- Benchmark Industries or equivalent

6.15 Variable Speed shaker table, 18" x 12"- Orbital Shaker- Jiangau Tenlin Instr. Co., Ltd., Model no. TLSK-III 20-230 RPM, 0-999 min, or equivalent

6.16 Centrifuge, 50 mL, Premiere Model XC-2450 Series Centrifuge 6 x 50 mL, 3500 RPM max., or equivalent

6.17 Mechanical Pipettors- 10-100 µL; 100-1000 µL; 1000-5000 µL-4 E'S Scientific or equivalent, calibrated quarterly.

6.18 Vortex Mixer- Benchmark Industries or equivalent

6.19 pH paper, short range 6-8 and full range with 0.5 pH readability- VWR Scientific or equivalent

6.20 15 mL PP or HDPE Centrifuge tubes, Corning Part no. 430791

6.21 3 mL Disposable Transfer pipets, PE, VWR part no. 16001-176

6.22 1.0 mL polypropylene snap cap vials, Agilent part no. 5182-0567

6.23 Snap caps, polypropylene, 11 mm, 11/9k, Agilent Part no. 5182-0542

6.24 2mL self-standing PP microcentrifuge snap cap tubes, SKS Scientific part no. 0747-17

6.25 Collection tubes, 15 mL graduated PP or HDPE Centrifuge tubes, Corning Part no. 430791

6.26 Disposable 10 mg scoops, PP

6.27 Ultrasonic mixer

6.28 10 mL disposable syringes, PP or HDPE, luer fitting

6.29 13mm or 25 mm 0.2 um Nylon membrane filters, PALL Acrodisc or equivalent

7. REAGENTS AND STANDARDS (as listed or demonstrated equivalents)

7.1 ALL REAGENTS and STANDARDS MUST BE LOGGED INTO THE ELEMENT LIMS SYSTEM. This includes lot numbers, expiration, open and prepared dates, receipt date, Certification/traceability documents from supplier(s) if provided and preparer.

7.2 SOLVENTS and REAGENTS-all as listed or equivalents

7.2.1 Methanol, hypergrade for LC/MS. (Merck) from Sigma Aldrich Part no. 1060354000 or equivalent (HPLC Plus grade is an acceptable alternate)

7.2.2 Water, hypergrade for LC/MS. (Merck) from Sigma Aldrich Part no. 1153334000 or equivalent (HPLC plus grade is an acceptable alternate). Alternatively, York PFAS free water demonstrated ion and PFAS free can be used.

7.2.3 Acetic Acid, glacial. ACS grade or equivalent.

7.2.4 Ammonium Hydroxide, conc. Cert. ACS grade, 28-30% in water, Sigma Aldrich part no.1054231000, or equivalent

7.2.5 Methanolic Potassium Hydroxide (0.05 M) – add 3.3 g of KOH to 1L MeOH.

7.2.6 Sodium Hydroxide, pellets, ACS grade- Sigma Aldrich part no. 221465-500G, or equivalent

7.2.7 Potassium Hydroxide, pellets, ACS grade

7.2.8 Ammonium Acetate – ACS grade or better, Ammonium Acetate, HPLC or cert. ACS grade. Sigma Aldrich Part no. 73594-100-G-F or equivalent.

7.2.9 Ammonium Acetate 5 mM for HPLC in aqueous solution: HPLC gradient A-- Weigh 0.3854 g (+ 0.0005) Ammonium Acetate and add to 1-liter hypergrade Water. Mix until dissolved then sonicate for 5 mins. To remove air bubbles. Stability - 2 weeks.

7.2.10 **Methanolic Ammonium Hydroxide 0.3 %** - take 2.5 mL of conc. ammonium hydroxide into 247 mL MeOH (measure the 247 mL in a PP graduated cylinder-they are under QQ1 somewhere). Use a mechanical pippetor to add the 2.5 mL (not strictly quantitative FYI)-**Make 4 bottles of this**. *Used for soil extractions*. - 1 month shelf life.

7.2.11 **Methanolic Ammonium Hydroxide 1.0 %** - take 8.25 mL of conc. ammonium hydroxide into 242 mL MeOH (measure the 242 mL in a PP graduated cylinder-they are under QQ1 somewhere). Use a mechanical pipet to add the 8.25 mL (not strictly quantitative FYI)- **Make 4 bottles of this -***used in Promochrom*-1 month life.

7.2.12 **Aqueous Ammonium Hydroxide 3%-** take 24.8 mL of ammonium hydroxide and add 242 mL PFAS free water. 3-month life- *used for pH adjustment*

7.2.13 **Methanol with 4% water, 1% ammonium hydroxide and 0.625% acetic acid** – add ammonium hydroxide (3.3 mL, 30%), reagent water (1.7 mL) and acetic acid (0.625 mL) to methanol (92 mL), store at room temperature, replace after 1 month. **This solution is used to prepare the instrument blank, calibration standards, and is used to dilute the extracts of samples that exceed the calibration range.**

7.2.14 **Formic Acid 0.1M-aqueous** – add 873 µL formic acid into 250 mL PFAS free water- **Make 2 bottles of this-***used to prepare 7.2.16 below.* 2-year life

7.2.15 **Formic Acid, 0.3M**-aqueous- add 2.62 mL (2619 µL) into 250 mL PFAS free water- **Make 4 bottles of this -***used in Promochrom*-2 year life

7.2.16 **Formic Acid methanolic 1:1, 0.1M formic acid**- mix equal volumes of Methanol and 0.1 M formic acid- **Make 4 bottles of this -***used in Promochrom*-2 year life

7.2.17 **Formic Acid 5% aqueous**- add 12.5 mL Formic acid into 250 mL PFAS free water. *Used for pH adjustment.* 2-year shelf life

7.3 **Stock Standards**

Stock Standards are purchased in mid to high concentration levels from Wellington Laboratories, Inc. Guelph, ONT, CA. Currently, Wellington is the preferred supplier of these materials. As a second source verification, prepare a mid-level from the stock independently from the preparation used for initial calibration. Document this preparation in Element. See Attachments 1,2, and 3 for detailed information.

7.3.1 Internal Standards (7-Non-Extracted –NIS)) used for the method are MPFOA, MPFOS, M3PFBA, MPFDA, MPFHxA, MPFHxS and MPFNA. These are purchased at 250 - 1000 ng/mL depending upon the ISTD in a

mixture. This mixture is purchased from Wellington Labs in 1.2 mL volumes with the following **part no.: MPFAC-HIF-IS**. Stored at 4C or less unopened this solution has a 5-year shelf life. Once opened, the life is one year from open date.

7.3.2 Isotopic Surrogate Analogs (24 isotopes) are purchased for the method described from Wellington Labs at 250-5000 ng/mL levels, depending upon the isotope. Part no. is **MPFAC-HIF-ES**.

7.3.3 Stock Standard mixtures of both linear and branched isomers of the EPA 1633 40 compound list are purchased from Wellington Labs at varying concentrations in 5 different mixtures under part nos. PFAC-MXJ, PFAS-MXI, PFAC-MXH, PFAC-MXG, PFAC-MXF.

7.3.4 Second source standard mixture of both linear and branched isomers of the EPA 1633 40 compound list is purchased from Absolute Standards at 2 µg/mL under part no. 65735.

7.3.5 Qualitative branched isomers mix- individual available branched and linear mixes for the following PFAS are used daily to allow for qualitative knowledge of the PFAS branched isomers so they are integrated/included in quantitative analysis: T-PFOA, lp-PFNA, br-FOSA, br-NEtFOSA, br-NMeFOSA, br-NEtFOSE and br-NMeFOSE. These are purchased at 50,000 ng/mL levels from Wellington Labs-the names above are the Catalogue nos. These have a 5-year life at stock concentrations.

Make a 100 ng/mL Intermediate mix by adding 2.0 µL of the individual stocks up to 1.0 mL with MeOH.

Make a working solution by taking 200 µL of the 100 ng/mL intermediate into 750 µL of cal matrix solution (7.2.13) and add 50 µL of 1:10 EIS mix.

Transfer 300 µL to an autosampler vials, add 3 µL of ISTD working mix, cap vortex, and store until needed. Shelf life is 1 year.

The summary below details the procurement requirements for this method - All from Wellington Laboratories, Inc. except the second source from Absolute Standards:

Description	Part nos.	Comes in
40 Compound Target 1633 list targets	PFAC-MXJ PFAS-MXI PFAC-MXH PFAC-MXG PFAC-MXF	4 Days – 1.2 mL
Isotopic Surrogates-24	MPFAC-HIF-ES	4 Days – 1.2 mL
EPA 1633 – 7 Internal Std.	MPFAC-HIF-IS	4 Days – 1.2 mL
Method 1633 PFCs – Cal Std.	65735	2 days – 1.2 mL

7.4 Preparation of Standards

7.4.1 Preparation of Working Standards and Intermediates from STOCK Materials

All stock standards are prepared by the vendor in methanol containing a bit of sodium hydroxide to prevent losses of target PFAS compounds due to potential esterification in methanolic solution. The stocks come prepared with 4 molar equivalents (a 3x excess) of sodium hydroxide for stocks at the 50 µg/mL levels. This insures their stability with respect to potential loss due to esterification. The basic solution ensures that any acidic sites on the glass ampules or acidic impurities in the methanol are neutralized to prevent ester formation and forms the sodium salt of the PFAS to stabilize it.

When preparing any intermediate level standards, the dilution must be prepared in alkaline methanol to prevent the above from occurring.

To do this, prepare a 5.0 mM NaOH in Hypergrade Methanol (or LC/MSMS grade) by dissolving 0.02 g. of sodium hydroxide into 100 mL of MeOH. This has a 2-week life.

For intermediate standards that are made to 10 mL final volume, add 100 µL of 5.0 mM NaOH/MeOH as part of the preparation. This results in a final concentration of NaOH at 0.05 mM.

For intermediate standards prepared to a final volume of 1.0 mL. add 10 µL of the 5.0 mM NaOH/MeOH.

For working calibration standards/CCV/SCV made to 500 µL final volume, using the mixture detailed in section 7.1.13 (MeOH/Water/acetic acid/ammonium hydroxide). This approximates the matrix of the final extracts for analysis.

7.4.2 Storage and Handling of Standards

All working standards should be stored at either room temperature or 4 °C provided the containers are sealed properly.

Stock Standards may be stored at 4 - 10 °C but before using must sit to allow equilibration to room temperature followed by either vigorous vortex mixing or sonication for 3-5 mins.

7.4.3 Detailed Standards Preparation Procedure-EPA 1633

7.4.4 Internal Standards-*See Attachment 1*

Internal Standards are purchased as a **stock mixture** at 250-1000 ng/mL.

These as transferred to a snap cap vial that has been pre-rinsed with 5 mM NaOH/MeOH then allowed to dry.

7.4.4.1 Working level of Non-Extracted Internal Standard (NIS) – make a 1:1 dilution of the stock by taking 500 µL of the Stock and adding 500 µL MeOH.

Use as is by adding 3 µL to 300 µL volumes for QC samples, or calibration.

7.4.5 Isotopic Surrogates (Extracted Internal Standards)- *See Attachment 2*

7.4.5.1 Stock Surrogates are purchased as a mixture at 250-5000 ng/mL. These are transferred to a snap cap vial that has been pre-rinsed with 5 mM NaOH/MeOH then allowed to dry.

Option 1- Use Stock as received and add 25 µL to all samples/QC to be extracted.

Option 2- Prepare **2** mL of Working EIS by preparing a 1:2 dilution to yield 125-2500 ng/mL for use as follows:

Take 1000 µL of the Surrogate Stock, plus 25 µL of 5 mM NaOH/MeOH and 975 µL MeOH to give 2.0 mL final volume**. 50 µL are added to ALL preparation blanks, samples, and QC**. This is sufficient for approx. 40 x 50 µL additions to all blanks, QC, and samples.

This corresponds to adding 5 to 100 ng of EIS compounds to the initial samples and QC. The final volume of extractions will typically be 5.0 ml so this yields 1-20 ng/mL of the isotope EISs in the final extract for analysis.

For calibration, the Stock mix at 250-5000 ng/mL is used by adding 100 uL up to 1.0 mL final volume to yield 25/500 ng/mL in each calibration level as directed in the calibration section 7.4.7.1.

7.4.6 Target Analytes- EPA 1633- *See Attachment 3*

The target analytes for this method are purchased commercially from Wellington Labs using the five part numbers described in Section 7.3.3. They contain the method target analytes only at varying concentrations. These mixtures are transferred from their glass ampules to snap cap vials that have been pre-rinsed with 5 mM NaOH/MeOH then allowed to dry. Again, these are the nominal concentrations and the actual anion concentrations for those present as salts are listed in the documentation and are reflected in both Mass Hunter and Element.

Preparation of a 1.0 mL volume of a 10x intermediate of each of the 5 mixes for Calibration. Some of the higher levels on the curve use aliquots of the stock as shown in Figure 2.

Scale the volume accordingly if less is desired. Note that the EPA 1633 mixes come 1.2 mL per vial so this recipe may consume one vial quickly.

7.4.6.1 OPR and LLOPR - these are a mid-level blank spike and low-level blank spike (at 2x the LOQ). These are prepared as follows from the EPA 1633 Target mixtures (5 components) by taking 200 µL of each STOCK into a snap cap vial giving 1.0 mL final volume.

1. Element ID Y22B199 - PFAC-MXF mix 200 µL.
2. Element ID Y22B200 - PFAC-MXG mix 200 µL.
3. Element ID Y22B201 - PFAC-MXH mix 200 µL.
4. Element ID Y22B204 - PFAC-MXI mix 200 µL.
5. Element ID Y22B205 - PFAC-MXJ mix 200 µL.

For OPR (BS) at mid-level add 100 µL to each matrix for the batch OPR and for the **LLOPR add 20 µL** of the spike mix and process through all steps of the specific matrix preparation.

7.4.7 Second Source Standard

The Second Source intermediate standard is prepared in a similar manner to Target Analytes detailed in the previous section whereby a 10x intermediate is prepared by diluting 100 µL of stock obtained from Absolute Standards (2 µg/mL) in 1.0 mL of solvent. The final concentration of this standard is nominally 200 ng/mL.

7.4.8 Calibration

Calibration of the LC-MSMS systems is done by an eight-level calibration covering the range 0.2 to 1650 ng/mL, nominal. Various PFAS species are present as salts and at differing concentrations and these are reflected in Mass Hunter and Element as their actual concentrations. Six to eight levels are prepared depending upon the analyte. These levels are prepared as directed below using the internal standards, surrogates, and target analytes from above.
This is made to a final volume of 1000 µL in the matrix described in section 7.1.13 (MeOH/Water/acetic acid/ammonium hydroxide)

This preparation excludes the ISTD in the initial preparation. After preparation as directed, withdraw 300 µL of each level into a 500 µL PP vial and add 3 µL of ISTD before analysis, cap, and vortex to mix.
These are stored at <10C and are stable for 6 months when prepared as directed.

7.4.7.1 Calibration Curve Preparation - Based upon a final volume of 1.0 mL in CAL Matrix Solution*

See Attachment 4 for details.

EPA 1633 Calibration Standard Preparation
Rev 1.,0 10/03/22

For Final volume of 1.0 mL
Recipe uses both a 1:10 intermediate for some levels AND the Stock for other points as indicated
All standards in Stds refrig. Adjacent to QQQ1 N2 generator in box labeled EPA 1633 standards- all are opened, labeled and good to use.

Level	*Stock: Y22B201* **1633 MXH Targets Intermediate @10x * uL of MXH 10x Interm.**	*Stock: Y22B200* **1633 MXG Targets Intermediate at 10x* ul of MXG interm.**	*Stock: Y22B199* **1633 MXF Targets Intermediate at 10x* ul of MXF interm.**	*Stock: Y22B204* **1633 MXI Targets Intermediate at 10x* ul of MXI interm.**	*Stock: Y22B205* **1633 MXJ Targets Intermediate at 10x* ul of MXJ interm.**	*Stock: Y22B198* **1633 EIS isotope Mix Intermediate at 10x uL of EIS Interm.**
1	2	2	4	2	2.5	50
2	5	5	10	5	6.25	50
3	12.5	12.5	25	12.5	15.6	50
4	25	25	50	25	31.3	50
5	50	50	100	50	62.5	50
6	125	125	250	125	15.6 of Stock	50
7	25 of Stock	25 of Stock	50 of Stock	25 of Stock	31.2 of Stock	50
8	62.5 of STOCK	62.5 of STOCK	125 of STOCK	62.5 of STOCK	78.0 of Stock	50

* 100 uL up to 1 mL in MeOH

*CAL MATRIX: Methanol with 4% water, 1% ammonium hydroxide and 0.625% acetic acid – Prepared by adding ammonium hydroxide (3.3 mL, 30%), reagent water (1.7 mL) and acetic acid (0.625 mL) to methanol (92 mL), store at room temperature, replace after 1 month. This solution is used to prepare the instrument blank and is used to dilute the extracts of samples that exceed the calibration range.

Amount of CAL Matrix to make up to 1.0 mL Final volumes:

CAL LEVEL	µL of CAL Matrix
1	937.5
2	918.8
3	871.9
4 *	793.7
5	637.5
6	309.0
7	843.8
8	609.5

INTERNAL STANDARD MIX (non-extracted IS-NIS). Mix 500 µL of STOCK ISTD at 250-1000 ng/mL with 500 µL of Methanol. This results in 125-500 ng/mL Intermediate ISTD. See 7.4.4.1.

Add 3.0 µL to 300 µL of each level 1-8 in a 500 µL PP autosampler vials and cap with polyolefin cap, vortex to mix and run. Add 3 µL to 300 µL of all sample/QC extracts before analysis.

*Level 4 is also used as the CCV for each analysis sequence run initially, then after every 10 samples and at the end of the sequence. Multiple vials should be prepared for this level.

7.4.9 Checking the Efficacy of the Surrogate/Spike Mixes

On a monthly basis the surrogate (EIS) and spike mixes from the vials used for spiking are assayed to ensure stability. These are prepared for the analysis by taking 3.0 µL of the surrogate (EIS) mix and 3 µL of the Spike mix into 294 µL MeOH/Water/Acetic Acid/Ammonium hydroxide from 7.1.13, then add 3 µL of NIS (ISTD). This yields a 1:100 dilution of the EIS and Spike mixes. Use 100 as the dilution factor in the Mass Hunter worklist.

7.4.10 Second Source - Initial Calibration Verification (ICV)

The initial calibration verification is prepared in a similar manner to calibration standards whereby 50 µL of intermediate stock is diluted in 1.0 mL of solvent. The final concentration of this standard is nominally 10 ng/mL.

8. PROCEDURE

8.1 Preventative and Routine Maintenance

HPLC/MS/MS Preventative Maintenance	
As Needed: Change pump seals. Change in-line filters in autosampler (HPLC). Check/replace in-line frit if excessive pressure or poor performance. Replace column if no change following in- line frit change. Clean needle. Replace or clean Capillary Replace fused silica tube in ESI interface. Clean lenses. Clean skimmer. Ballast rough pump 30 minutes. Check Nozzle flow pattern	**Daily (When in use)** Check solvent reservoirs for sufficient level of solvent. Verify that pump is primed, operating pulse free. (ripple < 1%) Check needle wash reservoir for sufficient solvent. Verify capillary heater temperature functioning. Verify vaporizer heater temperature. Verify rough pump oil levels. Verify turbo-pump functioning. Verify nitrogen pressure for auxiliary and sheath gasses. Possible Checktune
Semi-Annually Replace oil mist and odor elements. Replace activated alumina filter if applicable	**Annually** Vacuum system components including fans and fan covers. Clean/replace fan filters, if applicable.

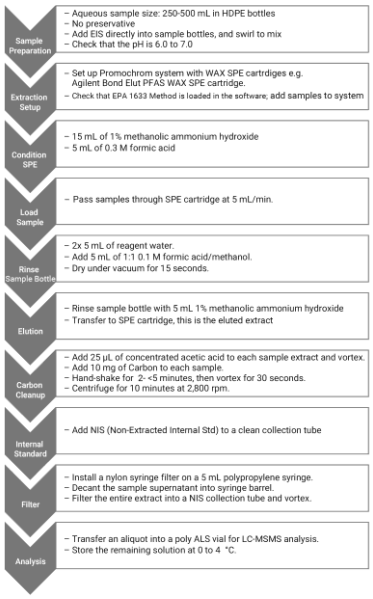
8.2 Sample Preparation (Extraction, Clean-up and Concentration)- Aqueous Matrices

A summary of the steps for the steps related to aqueous samples are shown in Figure 1.0 and in the summary below.

1. Determine % Suspended Solids – 10.0 mL $\pm$ 0.02 mL through a tared 0.2 um PP filter. Dry filter $\geq$ 12 hours @ 105C, cool in desiccator. Calc % TSS.
2. Check pH with short range pH paper to insure pH = 6.5 $\pm$ 0.5. Adjust as necessary with either 5% aqueous formic acid to lower pH or with 3% aqueous ammonium hydroxide to raise pH.
3. Weigh sample bottle as is to $\pm$ 0.1 g.-remove cap first since that will not be weighed later since autosampler caps are used.
4. Homogenize sample by inversion 3-4 x-place full volume on Promochrom System using WAX SPE cartridges.
5. Set up MBLK, OPR at 2x LOQ (low LCS) and mid-level OPR (mid-level LCS)-spike with 10 µL of Spike mix for LLOPR and 100 µL of spike mix for mid-OPR.
6. Spike all with 25 µL EIS solution (isotopic surrogates)

7. Follow Promochrom method for EPA 1633
8. Initiate SPE program EPA1633AQ on the Promochrom system
9. Once the program is finished there will be 5 ml in the collection tube. If less, make up to exactly 5.0 mL with MeOH.
10. Remove the sample bottle from the Promochrom system and weigh the empty bottle. That will determine the weight (volume for water) assume 1 g = 1.0 mL. Enter this value into the element bench sheet and the initial volume.
11. Add 25 µL of concentrated acetic acid to each collection tube and vortex to mix.
12. Add 10 mg of activated carbon to all samples and QC. Hand mix and vortex mix for no more than 2 minutes.
13. Centrifuge at 2800 rpm for approx. 10 minutes.
14. Filter the final volume through 0.2 um nylon filter using a syringe.
15. If the client provides only 250 mL of sample, in order to meet reporting limits, it may be required to concentrate the unfiltered extract by a factor of at least 2 on a TurboVap at 1.2 Liters/min with nitrogen at <55 ^{o}C. For example, if the final volume is 5.0 mL, concentrate to 2.0 mL final volume (2.5 x concentration). If 500 mL is provided, skip this step.
16. Enter the final volume achieved into the bench sheet in Element.
17. Transfer a portion of the final extract to a 2 mL snap cap, labeled.
18. Take a 300 µL portion of the extract into a 500 µL PP autosampler vial, add 3 µL of NIS (non-extracted internal std.). Cap, vortex, store at <6 ^{o}C.
19. Sample is ready for analysis.

Figure 1.0 Aqueous Sample Preparation Steps



8.2.1 To measure sample initial volume for aqueous samples, remove the cap and weight the bottle and record the weight in the sample weight. For MBLK, LLOPR and OPR use 250-500 mL volumes). After SPE processing, be sure the empty bottle is dry and weight to determine the amount of sample in grams (essentially equal to volume in mL). Use that number for the initial volume in Element LIMS.

8.2.2 For every 20 field samples (Field blanks are considered field samples in as they are treated as such), a blank (MBLK), blank spikes, (2 levels-LLOPR and OPR as BS1 and BS2 respectively. A matrix spike is not necessary since isotope dilution is used. If an MS/MSD is required by a specific project, spike 100 µL of the mid-level BS mix (OPR).

8.2.3 All polypropylene equipment including graduated cylinders and sample transfer lines/reservoirs should be washed prior to using with extraction solvent (Methanol).

8.2.4 Add 25 µL of EIS (isotopic surrogates) (250/5000 ng/mL) to each sample and QC sample, recap, and invert to mix well.

8.2.5 Add, 20 µl (low level spike), 100 µL (mid-level spike)

8.2.6 Using the Promochrom automated system, run a cleaning run. Be sure the reservoirs of LC/MS grade methanol and HPLC plus grade water or equivalent are full. Prime all lines and align all components.

8.2.7. Load in the EPA1633 method and adjust the sample volume to 10 mL more than the highest volume container measured by visual comparison to a calibrated bottle of the same size. Please refer to *Appendix 2: Promochrom Method* detailing the automated SPE extraction method on the Promochrom system.

8.2.8 The SPE method solvents for extractions are as follows:

- Solvent 1 = MeOH
- Solvent 2 = H_2O
- Solvent 3 = 0.3 M Formic acid,
- Solvent 4 = 1:1 0.1M Formic Acid/MeOH,
- Solvent 5 = MeOH with 1% ammonium hydroxide (“Basic MeOH”)
  W1 = Aqueous waste, W2 = Organic waste

8.2.9 Place labeled 15 mL graduated collection vessels in the sample collection tray and use Element labels to identify the vials at this point. Print 2 sets of labels for each since they will be used after the concentration step as well. These are graduated.

8.2.10 Connect the bottles to the automated system.

8.2.12 Initiate the EPA1633Aq SPE Extraction Program. Each run is approximately 1 hour 45 minutes.

8.2.13 **Evaporation Options** - Aqueous Samples

N-EVAP systems

8.2.13.1 The resulting 5 mL extracts are not further concentrated unless Work Plan reporting limits need to be lower than standard RLs. When this is required by the Work Plan, the extracts and QC are transferred to the N-EVAP concentrator systems operated at 50-55 degrees C (never more than 55C) in their original collection vials. The nitrogen flow is initiated at 1.2 ml/min and adjusted on each individual sample to provide a gentle stream causing a slight disturbance at the surface of the methanol extracts.

8.2.13.2 As this evaporation proceeds the walls of each vessel are rinsed with methanol when the volume is approximately 2.5 mL and then again when the volume is reduced to just below 2.0 mL. Then Bring up the final volume to 2.5 mL. This is a 2x concentration when needed.

8.2.14 Swirl final extract, make up to 2.0 mL with methanol. Using a disposable polypropylene pipet, carefully transfer to a 2 mL PP snap cap vial.

8.2.15 Withdraw an aliquot of 300 µL into a 500 µL autosampler vial (PP) and add 3.0 µL of ISTD (NIS) mix.

8.2.16 Cap with polyolefin flexible caps and vortex to mix.

8.2.17 Store Extracts at <6^{o}C until analysis.

8.3 Sample Preparation (Extraction, Clean-up, and Concentration) - Soil Matrices

1. Determine % solids: use 5 grams; dry at 110C $\geq$ 12 hours.
2. Mix sample with a stainless-steel spatula to homogenize-exclude Sticks, vegetation, rocks and the like.
3. Remove 5.0 g. from the homogenized sample container. Add to a tared 50 mL centrifuge tube. Determine the weight $\pm$ 0.01 g.
4. Prepare QC using clean matrix (Ottawa Sand) wetted with 1 mL PFAS free water in 50 mL centrifuge tubes.
5. For all samples, QC blanks and LCSs (LLOPR and ML OPR) and a 25 µL aliquot of EIS onto the soil. The current Element standard ID is Y22J305. For the OPRs add

appropriate amount of spike solution (20 µL for LLOPR and 100 µL for OPR. The current Element Std ID is Y22J304.

6. Swirl the samples to mix then let sit for 30 minutes.
7. Add 10 mL of 0.3% methanolic ammonium hydroxide to each centrifuge tube.
8. Vortex to mix then shake on the shaker table for 30 minutes.
9. Next, centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes.
10. Transfer the supernatant liquid to a clean 50 mL centrifuge tube
11. Add 15 mL of 0.3% methanolic ammonium hydroxide to each of the original centrifuge tubes.
12. Vortex to mix then shake on the shaker table for 30 minutes.
13. Next, centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes.
14. Transfer the supernatant liquid to the centrifuge tubes from 10.0 above.
15. Add another 5 mL of 0.3% methanolic ammonium hydroxide to each of the original centrifuge tubes.
16. Vortex to mix then shake on shaker table for 30 minutes.
17. Next, centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes.
18. Transfer the supernatant liquid to the centrifuge tubes from 10.0 above.
19. Add 10 mg of activated carbon to the combined extract using a 10 mg scoop and hand swirl for 2 minutes (never more than 5 minutes of losses of Target PFAS will occur)
20. Centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes
21. Immediately Decant into a 50 mL centrifuge tube.
22. Place in TurboVap or on the N-EVAP system and concentrate at 55 deg. C to a final volume of approx. 7 mL at a nitrogen flow of 1.2 mL/min.
23. Add 35-40 mL of PFAS free water to the tube and vortex to mix.
24. Check the pH= 6.5 $\pm$ 0.5 if not adjust accordingly using 5% formic acid to lower pH or 3% aqueous ammonium hydroxide to raise pH to within this range.
25. Set up the soil EPA 1633 method on the Promochrom be sure volume is set to 50 ml for sample size. Please refer to *Appendix 2: Promochrom Method* detailing the automated SPE extraction method on the Promochrom system.
26. Place samples and QC centrifuge tubes on the autosampler
27. Once the program is finished, note the final volume and use that in the Element bench sheet as final volume. Should be 5.0 mL. If less make up to 5.0 mL with MeOH.
28. Add 25 µL of concentrated acetic acid to each collection tube and vortex to mix.
29. Add 10 mg of carbon to all samples and QC and mix for 2 minutes (no more than 5 minutes).
30. Immediately centrifuge at 2800 rpm for 10 minutes.

31. Filter the extract through a 0.2 um nylon membrane using a syringe and filter into a 2 mL snap cap vial.
32. When ready for analysis, remove 300 µL of extract and transfer to a 500 µL autosampler vial. Add 3 µL of NIS (internal standard), vortex to mix. Cap with polyolefin flexible caps and vortex to mix.
33. Store Extracts at <6^{o}C until analysis
34. Samples/QC are now ready for analysis.

8.4 Sample Analysis--Running Samples/QC - Acquisition Method

The acquisition method is detailed in Attachment 4 (HPLC) and Attachment 5 (MS/MS) of this SOP. The method is an HPLC with dynamic MRM method with precursor and product ions with specific acquisition parameters to maximize sensitivity and specificity. This list may be modified to add other PFAS target analytes as necessary.

8.3.1 The triple Quadrupole (QQQ) system must be optimized for each target analyte (including surrogates and internal standards) using the Mass Hunter Optimizer program. This program determines the most abundant precursor and product ions for each compound and their abundances. These data are then used to build an MRM (multiple reaction monitor) method for acquisition. This is done initially or after any major maintenance procedures are performed to the triple quadrupole system. A high-level standard is used for this in the $[M-H]^-$ mode or M-COOH for HFPO-DA.

8.3.2 The MS/MS is checked for tuning on a weekly basis (if necessary) before analysis using the Tune context by selecting the CHECKTUNE radio button. This is done only in negative ion mode since that is what we are operating under. If the Checktune fails, run the Autotune program-note: this takes approx. 45 mins. in negative mode. After autotune or any tuning adjustment, a re-calibration of the instrument is required.

8.3.3 Before any QC or samples can be run, the HPLC must be allowed to purge for at least thirty minutes. This purge must be done using the initial mobile phase conditions used in the method must be allowed to run for 15 minutes or until pressure has stabilized (ripple must be < 1%)

8.3.4 An instrument sequence (Worklist) is then made. It should begin with a blank, a primer (5 ng/mL) followed by a blank with ISTD to establish system cleanliness.

8.3.5 After a successful initial calibration has been completed, the analytical sequence for a batch of samples analyzed during the same time period is as follows. Standards and sample extracts must be brought to room temperature and

vortexed prior to aliquoting into an instrument vial in order to ensure homogeneity of the extract.

8.3.6 **Analysis Sequence**

1. Instrument Blank *
2. Instrument Sensitivity Check –**LOQ Standard Level (SEQ-CAL 1) S/N > 3:1**
3. Calibration Verification Standard (CCV)
4. Qualitative Identification Standards –Branched PFAS
   PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE.
5. Instrument Blank (SEQ-CCB) *
6. Method Blank (Batchxxxx-BLK1)
7. Low-level OPR (LLOPR) (Batchxxxx-BS1)
8. OPR (Batchxxxx-BS2)
9. Field Samples (10 or fewer)
10. Calibration Verification Standard (SEQ-CCVn)
11. Instrument Blank (SEQ-CCBn) *
12. Field Samples (10 or fewer)
13. Calibration Verification Standard (SEQ-CCVn)
14. Instrument Blank (SEQ-CCBn) *

* Contains solvent system for calibration, NIS, and EIS

8.3.7 The run can end with a script to put the instrument into standby mode.

8.4 Daily Sample Preparation/Analysis Sequence

- Prepare extracts for analysis by placing a 300 µl aliquot of sample extract containing 3 µL of internal standards into a PP auto-sampler vial. Apply Polyolefin cap.
- Confirm that the samples loaded on the auto-sampler were entered correctly in the injection log. Make any necessary corrections.
- Run instrument CCV checks at the RL (0.25-0.5 ng/mL), then at a mid-level and high level rotating every ten samples (5, 25 ng/mL) and ending with a mid-level CCV.
- Enter the Worklist (injection sequence) into the instrument software and load samples onto the auto-sampler in the order shown above in Section 8.3.6

8.5 Data Review

The Agilent Mass Hunter Quantitation program is used to review all data. All identifications are based upon retention time (RT) of the transition of the precursor to product ion represented by a peak. Retention times should not vary

more than ± 0.5 minutes as compared to the initial CCV analyzed for an analytical sequence. All positive detections of target PFAS must be less than the high point concentration of the calibration curve.

8.5.1 Since certain PFAS species are manufactured by different processes the presence of branched as well as linear isomers may be found. To properly quantitate these species, the analyst must sum the related branched and linear isomers. This affects the following species: PFOS, PFHxS, PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE.

8.5.2 Any detection greater than the upper limit of the calibration curve requires dilution into the upper half of the curve, where possible.

9. CALIBRATION

9.1 Initial Calibration

The initial calibration covers the range 0.20 ng/mL to 1560 ng/mL nominal conc. or higher depending upon the linearity of the PFAS species. After acquisition, the data are quantitated in Mass Hunter and the default calibration model for target compounds is generated using Quadratic regression, FORCED through the origin where applicable. All same level species (EIS) used average response factor model. Depending upon the response and accuracy at each level as shown in the Mass Hunter program, use Linear, Forced, weighted (1/x) or quadratic, Forced, with or without weighting to achieve the best fit which is based upon the best accuracy on a compound-by-compound basis. In any case, the correlation coefficient must be greater than 0.990. Average Response Factor (RF) or Relative Standard Deviation (RSD) should be $\leq$ 20% where used.

9.1.1 The calibration levels as shown in Section 7.4.7 use 8 levels. All points are included in the calibration with the exception of some species that saturate at levels 7 and 8.

9.2 Calibration Verification

9.2.1 Relative Standard Error (RSE): For calibrations using an average RF curve fit, the relative standard deviation (RSD) is the measure of relative error. However, if a quadratic regression is used RSE should be calculated for calibration curve. RSE is calculated by the Mass Hunter software. The RSE for all method analytes should be ≤ 20% to establish instrument linearity.

9.2.2 An independently prepared Initial Calibration Verification must be run immediately following initial calibration. The concentration of this standard should be in the middle of the calibration range (e.g., 5.0 ng/mL) and prepared from a separate preparation as that of the calibration. Unless project-specific data quality objectives are required, the values from the second-source check should be ± 30% of the expected concentration.

9.2.2.1 **Corrective Action**: Quantitative sample analyses should not proceed for a failing ICV. Recalibrate and re-run the ICV if necessary.

An independently prepared Initial Calibration Verification must be run immediately following initial calibration. The concentration of this standard should be in the middle of the calibration range (e.g., 5.0 ng/mL) and prepared from a separate preparation as that of the calibration. Unless project-specific data quality objectives are required, the values from the second-source check should be ± 30% of the expected concentration.

Corrective Action: Quantitative sample analyses should not proceed for a failing ICV. Recalibrate and re-run the ICV if necessary.

9.3 Continuing Calibration Verification

The first CCV is at a mid-level and analyzed every 10 client samples including a closing CCV.

The mid-Level CCV must be ± 30% of the true value.

Corrective Action: If any of the required calibration check criteria fail, the system must be evaluated, and any appropriate instrument repair or maintenance must be performed. Sample data are unacceptable and must be rerun. Reinjection of the standard may be done. If the calibration check standard still fails, the system must be recalibrated.

10. Quality Control

10.1 Initial Demonstration of Capability (IDOC)

10.1.1 The initial demonstration requirement of EPA 1633 must be acceptable before analysis of samples may begin. To establish the ability to generate acceptable precision and recovery, the laboratory must perform the following operations for each sample matrix type to which the method will be applied by that laboratory.

The IDOC includes the following key elements:

- Initial Demonstration of Precision and Recovery (IPR)
- MDL determination

10.1.2 Initial Demonstration of Precision and Recovery-IPR

- Extract, concentrate, and analyze four aliquots of aqueous and soil matrices spiked with 100 µL of the native spike solution OPR Mix Y22J304, 50 µL of the EIS solution no. Y22J305. At least one method blank, matching the matrix being analyzed, must be prepared with the IPR batches by matrix. All sample processing steps that are used for processing samples, including preparation and extractions, cleanup and concentration, must be included in this test.

- Using results of the set of four analyses, compute the average percent recovery (R) of the extracts and the relative standard deviation (RSD) of the concentration for each target and EIS compound.
- For each native and isotopically labeled compound, compare RSD and % recovery with the corresponding limits for initial precision and recovery in Table 5. If RSD and R for all compounds meet the acceptance criteria, system performance is acceptable, and analysis of blanks and samples may begin. *Note these acceptance criteria are not finalized and are based upon a single lab validation. Data for this table is derived from the single-laboratory validation study and are only provided as examples for this draft method. The data will be updated to reflect the inter-laboratory study results in a subsequent revision. Therefore, these criteria will change after inter-laboratory validation. Several sections of this method state that Table 5 criteria are required, this is standard language that will be applicable when the method is finalized.*

10.1.3 MDL Determination

MDL Determination –In order to perform the MDL study, 7 total extractions are performed on 3 different days (Extraction Day 1= 3 LRBs and 3 LFBs, Extraction Day 2 is 2 of each, and Extraction Day 3 is also 2 of each).

The levels extracted represent approx. 3-5 x the expected LOQ.

Once extracted, the analyses are conducted on 3 separate days the MDL is determined according to the EPA MDL protocol defined in Definition and

Procedure of the Determination of the Method Detection Limit, Revision 2 Dec. 2016 as detailed below:

Make all computations as specified in the analytical method and express the final results in the method-specified reporting units.

Calculate the sample standard deviation (SD) of the replicate spiked sample measurements and the sample standard deviation of the replicate method blank measurements from all instruments to which the MDL will be applied.

Compute the MDLs (the MDL based on spiked samples) as follows:

MDL_s = 3.143 x SD (for seven replicates; SD = Standard Deviation)

Compute the MDL_b (MDL based on method blanks-LRBs) as follows:

- If none of the blanks give numerical results, then the MDL_b does not apply.
- If only some of the blanks (but not all) give a result, set the MDL_b to the highest result found.
- If ALL method blanks show a detection, then use the following calculation to determine MDL_b:

MDL_b = Average of Blank Detections + (3.143 x Std. Dev.)

Calculate the final MDL by selecting the greater of MDL_s or MDL_b.

10.2 On-going QC Requirements

Preparation Batches are defined at the sample preparation step. Batches should be kept together through the whole analytical process as far as possible, but it is not mandatory to analyze prepared extracts on the same instrument or in the same sequence.

The quality control batch is a set of up to 20 samples of the same matrix processed using the same procedure and reagents within the same time period. The quality control batch may contain a matrix spike/matrix spike duplicate (MS/MSD), two laboratory control samples (LCS-LLOPR and OPR) and a method blank. Laboratory generated QC samples (Blank, LLOPR, OPR, MS/MSD) do not count toward the maximum 20 samples in a batch. Field QC samples are included in the batch count. In some cases, at client request, the MS/MSD may be replaced with a matrix spike and sample duplicate.

10.2.1 METHOD BLANK - One method blank must be extracted with every prep batch of similar matrix, not to exceed twenty (20) samples. For aqueous samples the matrix is Lab reagent water. For Soils the method blank matrix is

Ottawa sand. Criteria:

- The method blank must not contain any analyte at or above 1/2 the LOQ (Reporting Limit).

- Re-extraction and reanalysis of samples associated with an unacceptable method blank is required when reportable concentrations are determined in the samples.

10.2.2 LABORATORY CONTROL SAMPLES (LCS- also called OPR and LLOPR) must be extracted with every process batch of similar matrix, not to exceed twenty (20) samples. The LCS is an aliquot of laboratory matrix (e.g., water for aqueous spiked with analytes of known identity and concentration and isotopic surrogate analogs. The OPRs must be processed in the same manner and at the same time as the associated samples. Recovery for Aqueous low level OPR target analytes are 40-150% until more data are derived. For all other Aqueous OPR levels recovery targets are 50-150%. These data are based upon EPA 1633 draft ranges that will change and are not used for acceptance/rejection but are reported until such time that fully validated acceptance ranges are provided in the final version of the method.

10.2.3 Matrix spike/Matrix spike duplicate (MS/MSD or MS/MSD). These are not typically required since each sample contains isotopic PFAS analogues that correct for any matrix effects. If the client requests them, then they are processed accordingly but are not a requirement of this method. If done they are by matrix, not to exceed twenty (20) samples. An MS/MSD pair is aliquots of a selected field sample spiked with analytes of known identity and concentration. The MS/MSD pair must be processed in the same manner and at the same time as the associated samples. Spiked analytes with recoveries or precision outside of the Laboratory control limits are flagged accordingly. Until enough statistical data per matrix is available, no criteria are offered. If a specific QA Project Plan has required limits, this is preempted. Any outliers must be qualified accordingly.

10.2.4 Initial calibration verification (ICV) –A second source standard is not required for this method. A second independently prepared mid-level standard is prepared and used for this purpose and analyzed after the ICAL. The concentration should be at the mid-range of the curve and must recover within 70-130 % of expected value.

Corrective actions for the ICV include:

- Rerun the ICV
- Remake or acquire a new ICV.
- Evaluate the instrument conditions.

- Evaluate the initial calibration standards.
- Rerun the initial calibration.

10.2.5 Internal Standard- The Non-extracted Internal Standard (NIS) is added to each field and QC sample prior to analysis. The IS response (peak area) must not deviate by more than 50-200% from the mean response (peak area) of the initial calibration. If the areas are low for all the field samples and QC samples in the batch, it suggests a loss of instrument sensitivity, while low areas in only some field or QC samples suggests a possible bad injection.

Corrective action includes:

- Reinject the questionable samples.
- Verifying the CCV NIS areas are compliant with the range, if so, this suggests either matrix effects or may require a small dilution to mitigate interference if only some of the NIS compounds are affected.
- Qualify affected data.

10.3 Initial Demonstration of Capability (IDC)

Initial Demonstration of Capability involves the following processes listed ion Table 1.0 as follows.

Table 1.0 - Initial Demonstration of Capability (IDC)

Requirement	Specification and Frequency	Acceptance Criteria
Initial Demonstration of Precision and Recovery (IPR)	Extract, concentrate, and analyze four aliquots of the matrix (aqueous and soil) spiked with target native standard solution, EIS solution and finally the NIS (ISTD). Extract a method blank of each matrix with each matrix IPR batch. All steps that are used for processing samples, including preparation and extraction must be included.	Using results of the set of four analyses, compute the average percent recovery (R) of the extracts and the relative standard deviation (RSD) of the concentration for each target and EIS compound.
		For each native and isotopically labeled compound, compare RSD and % recovery with the corresponding limits for initial precision and recovery in Table 5. If RSD and R for all compounds meet the acceptance criteria, system performance is acceptable, and analysis of blanks and samples may begin.
Method Detection Limit (MDL)	Method detection limit (MDL) - Each laboratory must also establish MDLs for all the analytes using the MDL procedure at 40 CFR Part 136, Appendix B. An MDL determination must be performed for all target compounds.	The minimum level of quantification (ML) can be calculated by multiplying the MDL by 3.18 and rounding to the nearest integer

Calibration Verification (ICV or SCV) *Section 9.1.5*	Analyze a mid-level ICV, each time a new calibration is performed or at a minimum, quarterly. The ICV must be an independent dilution beginning with the common starting materials used for ICAL. No 2nd source is required due to availability.	Results must be 70-130% of true value.

10.4 **QC Requirements**

Ongoing QC requirements are detailed in Table 3.0 as follows.

Table 3.0 QC Requirements

Summary of Quality Control		
Method Reference	**Requirement**	**Specification and Frequency**
Section 10.1	Mass Calibration	Annually and on as-needed basis
Section 10.1.7	Mass Calibration Verification	After mass calibration
Section 10.3	Initial Calibration (ICAL)	Minimum 6 calibration standards for linear models and 7 calibration standards for non-linear models.
Sections 10.2.2, 14.4	Retention Time (RT) window	After ICAL and at the beginning of analytical sequence
Sections 7.3.1, 9.4	Extracted Internal Standard (EIS) Analytes	All CAL standards, batch QC and field samples
Sections 7.3.2	Non-extracted Internal Standards (NIS)	All CAL standards, batch QC and field samples
Sections 7.3.4, 10.3.1, 13.3	Instrument Sensitivity Check (ISC)	Daily, prior to analysis
Section 14.2	Calibration Verification (CV) (CCV)	At the beginning and every 10 samples and at the end
Section 14.6	Instrument Blank	Daily prior to analysis and after high standards
Sections 9.1.3, 9.5, 14.7	Method Blank (MB)	One per preparation batch
Section 14.5	Ongoing Precision Recovery (OPR)	One per preparation batch
Section 11.0	Limit of Quantitation Verification (LLOPR)	Prior to analyzing samples
Section 11.0	Matrix Spike (MS/MSD)	One per preparation batch (if required) Normally not needed, since Isotope dilution is employed

11.0 DATA REVIEW, CALCULATIONS AND REPORTING

Samples concentrations are determined using either linear regression or quadratic regression FORCED through the origin. Weighted ($1/x$ or $1/x^2$) may assist with low level accuracy and is recommended where necessary. All calibration curves have greater than 6 points. Any target analyte exceeding the calibration range will require dilution.

11.1 Data interpretation

All sample data calculations are performed by the Agilent Mass Hunter software in ng/mL and then final data are calculated considering final extract volumes and the initial sample volumes extracted which are entered into the Element bench sheet.

11.2 Linear and Branched Isomers are addressed in Section 8.5 and are reported for the noted species as Total which is a sum of the linear and branched isomers for affected species.

11.3 All Data are uploaded into Element LIMS and all final concentration calculations and associated recoveries are detailed. All pdfs of Mass Hunter Quant reports are uploaded to the Element Raw Data drive for association with ICALs and all batch and analysis sequence runs. Data are set to Analyzed status once uploaded and initially reviewed, then locked.

11.4 The Data is then evaluated using the York Qualinator ^{TM} data review tool which evaluates all data CCVs, QC, ISTDS, Recoveries, etc. and automatically assigns outlier qualifiers for review and acceptance by the reviewer. The accepted data are then uploaded to Element and final reviewed in Laboratory Data Entry/Review module. Once reviewed, the status is set to Reviewed indicating the data are ready to be Reported by the Reporting Group.

12. HEALTH AND SAFETY

12.1 General safety considerations and requirements are detailed in the York Laboratory Safety and Health Standard Operating Procedure No. Safety011600.

Specific safety rules applying to the conduct of this analysis requiring the following:

- When handling standards and samples, latex gloves are required.
- Also, when handling neat materials, a fume hood and safety glasses are required.
- When handling samples, gloves and glasses are required.
- Highly odorous samples must be handled in a fume hood.
- Refer to SDSs for specific safety/health information.

12.2 The analysts must exercise normal care and be supervised and trained to work in an analytical chemistry laboratory. The analysts will be handling fragile glassware, needles, syringes, volatile and flammable chemicals, toxic chemicals, and corrosive chemicals.

- No smoking or open flames are allowed.
- No food or food products may be brought into the laboratory.

Solvents should not be left uncovered on the laboratory benches.
All solvent transfers should be done in the hoods.

Hood doors must be kept in a position which yields approx. 100 fpm face velocity.
Solvent evaporation must be done in the hood with exhaust elevated and in the rear.

Waste containers that had solvents must be vented to a hood until all solvents have evaporated.

Safety glasses are provided and must always be worn in the laboratory.
Gloves are provided and must be worn when working with chemicals.
Laboratory coats are provided and should be worn to protect the analysts' clothes.
Syringes and needles must be kept in their original cases when not in use.
Care must be exercised in using and handling syringes to avoid injury.
Report any sticking with a needle immediately to your supervisor.

12.3 Specific Safety Concerns

12.3.1 Preliminary toxicity studies indicate that PFAS could have significant toxic effects. In the interest of keeping exposure levels as low as reasonably achievable, PFAS must be handled in the laboratory as hazardous and toxic chemicals.

12.3.2 Exercise caution when using syringes with attached filter disc assemblies. Application of excessive force has, upon occasion, caused a filter disc to burst during the process.

12.3.3 Laboratory procedures such as repetitive use of pipets, repetitive transferring of extracts and manipulation of filled separatory funnels and other glassware represent a significant potential for repetitive motion or other ergonomic injuries. Laboratory associates performing these procedures are in the best position to realize when they are at risk for these types of injuries.

12.3.4 Eye protection, laboratory coat, and nitrile gloves must be worn while handling samples, standards, solvents, and reagents. Disposable gloves that have been contaminated will be removed and discarded; other gloves will be cleaned immediately.

12.3.5 Perfluorocarboxylic acids are acids and are not compatible

with strong bases.

12.3.6 Primary Materials Used- The following is a list of the materials used in this method, which have a serious or significant hazard rating. NOTE: This list does not include all materials used in the method. The table contains a summary of the primary hazards listed in the SDS for each of the materials listed in the table. A complete list of materials used in the method can be found in the reagents and materials section. Employees must review the information in the SDS for each material before using it for the first time or when there are major changes to the SDS.

Methanol	-Flammable Poison -Irritant	200 ppm (TWA)	A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Symptoms of overexposure may include headache, drowsiness and dizziness. Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure. Irritant to the eyes.
Acetic Acid, Glacial	-Flammable liquid and vapor. -Irritation	10 ppm TWA; 25 mg/m3 TWA	**Eye:** Causes severe eye irritation. Contact with liquid or vapor causes severe burns and possible irreversible eye damage. **Skin:** Causes skin burns. May be harmful if absorbed through the skin. Contact with the skin may cause blackening and hyperkeratosis of the skin of the hands. **Ingestion:** May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause polyuria, oliguria (excretion of a diminished amount of urine in relation to the fluid intake) and anuria (complete suppression of urination). Rapidly absorbed from the gastrointestinal tract. **Inhalation:** Effects may be delayed. Causes chemical burns to the respiratory tract. Exposure may lead to bronchitis, pharyngitis, and dental erosion. May be absorbed through the lungs. **Chronic:** Chronic exposure to acetic acid may cause erosion of dental enamel, bronchitis, eye irritation, darkening of the skin, and chronic inflammation of the respiratory tract. Acetic acid can cause occupational asthma. One case of a delayed asthmatic response to glacial acetic acid has been reported in a person with bronchial asthma. Skin sensitization to acetic acid is rare, but has
Ammonium Hydroxide, conc. 28-30%	- Inhalation hazard - Skin Corrosion -Eye Damage and Irritation	OSHA PEL: 35 mg/m3 ; 50 ppm OSHA TWA: 18 mg/m3; 25 ppm	Ammonia is an irritant and corrosive to the skin, eyes, respiratory tract and mucous membranes. May cause severe chemical burns to the eyes, lungs and skin. Skin and respiratory related diseases could be aggravated by exposure. The extent of injury produced by exposure to ammonia depends on the duration of the exposure, the concentration of the liquid or vapor and the depth of inhalation. Exposure Routes: Inhalation (vapors), skin and/or eye contact (vapors, liquid), ingestion (liquid).

Formic Acid, conc.	-Flammable liquid and vapor -Harmful if swallowed -Causes severe skin burns and eye damage -Toxic if inhaled -May cause respiratory irritation	OSHA TWA: 5 ppm or 9 mg/m3 OSHA PEL: 10 ppm	Formic acid is an irritant and corrosive to the skin, eyes, respiratory tract and mucous membranes. May cause severe chemical burns to the eyes, lungs and skin. Skin and respiratory related diseases could be aggravated by exposure. The extent of injury produced by exposure to ammonia depends on the duration of the exposure, the concentration of the liquid or vapor and the depth of inhalation. Exposure Routes: Inhalation (vapors), skin and/or eye contact (vapors, liquid), ingestion (liquid).

13. WASTE MANAGEMENT/POLLUTION PREVENTION

Neat Materials

Waste management procedures require the prudent use of neat materials. The ordering of neat standards and materials must be done to minimize unused material which would result in storage or handling of excess material. Quantities ordered should be sufficient to provide for necessary standards with consideration to shelf life. When ordering a unique material for a standard, be sure to order the smallest practical quantity.

Solvents

The solvents used at York for this procedure include isopropanol and Methanol. These solvents are used for sample extraction or LC cleanup, all amounts are either consumed during concentration or placed in one-liter amber jars in the hood areas for evaporation. Any remaining solvent/water is transferred to a drum designated for solvent waste.

Acids and Bases

The acids and bases used for this procedure include Acetic Acid and Formic Acid. The bases used are Ammonium hydroxide, sodium hydroxide and potassium hydroxide. Store concentrated base and acids separately whether waste or neat material.

Samples

Unused or remaining water samples are returned to the sample control room for continued storage for proper disposal by the sample control group.

14. REFERENCES

1. EPA METHOD 1633 Draft 3 December, 2022- Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS; EPA 821-D-22-001

15. REVISION HISTORY

Revision 1.0	10/24/2022	First issue.
Revision 1.1	02/10/2023	Modified LLOPR in Section 7.4.6.1 to reflect 2x the MRL
Revision 1.2	06/23/2023	Added *Appendix 1: Target Compound Reporting Limits*. Updated Section 9.2 to add acceptable limits for ICAL RSE. Described the Promochrom extraction method in Sections 8.2, 8.3, and added *Appendix 2: Promochrom Method*. Redefined analytical batch as analytical sequence. Updated Reference to EPA 1633 Draft 3. Added reference to and preparation procedures for a second source standard in Section 7. Revised qualitative identification requirements for analytes in Section 8. Minor formatting edits.

Appendix 1 – Target Compound Reporting Limits

Target Compoud	Soil		Water	
	MDL/LOD	RL/LOQ	MDL/LOD	RL/LOQ
	ng/L	ng/L	µg/kg	µg/kg
Perfluorobutanesulfonic acid (PFBS)	0.111	0.177	0.47	1.77
Perfluorohexanoic acid (PFHxA)	0.053	0.200	0.35	2.00
Perfluoroheptanoic acid (PFHpA)	0.105	0.200	0.71	2.00
Perfluorohexanesulfonic acid (PFHxS)	0.179	0.183	0.68	1.83
Perfluorooctanoic acid (PFOA)	0.172	0.200	0.42	2.00
Perfluorooctanesulfonic acid (PFOS)	0.167	0.186	0.82	1.86
Perfluorononanoic acid (PFNA)	0.189	0.200	0.52	2.00
Perfluorodecanoic acid (PFDA)	0.191	0.200	0.75	2.00
Perfluoroundecanoic acid (PFUnA)	0.198	0.200	1.13	2.00
Perfluorododecanoic acid (PFDoA)	0.163	0.200	0.88	2.00
Perfluorotridecanoic acid (PFTrDA)	0.125	0.200	0.74	2.00
Perfluorotetradecanoic acid (PFTA)	0.103	0.200	0.69	2.00
N-MeFOSAA	0.148	0.200	0.79	2.00
N-EtFOSAA	0.194	0.200	1.03	2.00
Perfluoropentanoic acid (PFPeA)	0.109	0.400	0.23	4.00
Perfluoro-1-octanesulfonamide (FOSA)	0.146	0.200	0.88	2.00
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.155	0.200	0.91	1.91
Perfluoro-1-decanesulfonic acid (PFDS)	0.191	0.193	1.32	1.93
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.595	0.760	1.06	7.60
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.755	0.768	2.05	7.68
Perfluoro-n-butanoic acid (PFBA)	0.109	0.800	0.33	8.00
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.139	0.356	0.50	3.56
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.193	0.400	2.14	4.00
Perfluoro-4-oxapentanoic acid (PFMPA)	0.062	0.400	0.25	4.00
Perfluoro-5-oxahexanoic acid (PFMBA)	0.096	0.400	0.37	4.00
Perfluoro-1-pentanesulfonate (PFPeS)	0.157	0.188	0.76	1.88
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.595	0.750	1.79	7.50
HFPO-DA (Gen-X)	0.608	0.800	3.23	8.00
11CL-PF3OUdS	0.311	0.756	1.38	7.56
9CL-PF3ONS	0.246	0.748	0.70	7.48
ADONA	0.174	0.756	0.53	7.56
Perfluorododecanesulfonic acid (PFDoS)	0.169	0.194	0.93	1.94
Perfluoro-1-nonanesulfonic acid (PFNS)	0.124	0.192	0.86	1.92
3-Perfluoropropyl propanoic acid (FPrPA or 3:3FTCA)	0.634	1.000	2.03	5.00
3-Perfluoropentyl propanoic acid (FPePA or 5:3 FTCA)	2.098	5.000	7.33	25.00
3-Perfluoroheptyl propanoic acid (FHpPA or 7:3FTCA)	1.500	5.000	9.47	25.00
N-MeFOSE	0.611	2.000	3.99	20.00
N-MeFOSA	0.180	0.200	1.58	2.00
N-EtFOSE	0.697	2.000	3.99	20.00
N-EtFOSA	0.198	0.200	1.80	2.00

Appendix 2: Promochrom Method

Step	Action	Inlet 1	Inlet 2	Flow (mL/min)	Volume (mL)	Target
1	Elute	1% Basic Methanol	-	8	15	Waste
2	Elute	0.3M Formic Acid	-	8	5	Waste
3	Add Sample	Sample Inlet	-	10	60 or 510*	Waste
4	Rinse Sample	Water	Air (20%)	70	2.5	Sample Container
5	Add Sample	Sample Inlet	-	5	5	Waste
6	Rinse Sample	Water	Air (20%)	70	5	Sample Container
7	Add Sample	Sample Inlet	-	5	5	Waste
8	Rinse Sample	Water	Air (20%)	70	5	Sample Container
9	Add Sample	Sample Inlet	-	5	5	Waste
10	Rinse Sample	1:1 0.1M Formic Acid/Methanol	Air (20%)	70	1.3	Sample Container
11	Add Sample	Sample Inlet	-	5	3	Waste
12	Rinse Sample	1:1 0.1M Formic Acid/Methanol	Air (20%)	70	5	Sample Container
13	Add Sample	Sample Inlet	-	5	5	Waste
14	Air Purge	SPE Cartridge	-	5	5 Minutes	
15	Add Sample	Sample Inlet	-	5	5	Waste
16	Blow N2	Sample Inlet	-	5	1 Minute	
17	Rinse Sample	1% Basic Methanol	Air (20%)	70	1.3	Sample Container
18	Collect	Sample Inlet	-	5	3	Centrifuge Tube
19	Rinse Sample	1% Basic Methanol	Air (20%)	70	5	Sample Container
20	Collect	Sample Inlet	-	5	5	Centrifuge Tube
21	Collect	Sample Inlet	-	5	5	Centrifuge Tube

*60 mL is used for soil matrices and 510 mL is used for aqueous matrices.

Attachment 1 – Non-Extracted Internal Standards (NIS)

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B197**

Description:	MPFAC-HIF-IS-EPA 1633 ISTD STOCK	Prepared:	02/16/2022
Standard Type:	Other	Expires:	09/07/2026
Solvent:	Methanol/Water (<1%)	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	MPFACHIFIS0921
Vendor:	Wellington Laboratories		

Comments: Stock ISTD for EPA method 1633

Analyte	CAS Number	Concentration	Units
M3PFBA		1	ug/mL
MPFDA		0.25	ug/mL
MPFHxA		0.5	ug/mL
MPFHxS		0.474	ug/mL
MPFNA		0.25	ug/mL
MPFOA		0.5	ug/mL
MPFOS		0.479	ug/mL

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-IS

Mass-Labelled Perfluoroalkyl Substance Injection Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-IS
LOT NUMBER:	MPFACHIFIS0921
SOLVENT(S):	Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	09/07/2021
LAST TESTED: (mm/dd/yyyy)	09/07/2021
EXPIRY DATE: (mm/dd/yyyy)	09/07/2026
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-HIF-IS is a solution/mixture of five mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4, C_8, C_9-C_{10}) and two mass-labelled (^{18}O and ^{13}C) perfluoroalkanesulfonates (C_6 and C_8). The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids and mass-labelled perfluoroalkanesulfonates all have chemical purities of >98% and isotopic purities of ≥99% per ^{13}C or >94% per ^{18}O.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **MPFAC-HIF-IS; Components and Concentrations (ng/mL, ± 5% in methanol/water (<1%))**

Compound	Acronym	Concentration (ng/mL)		Peak Assignment in Figure 1
Perfluoro-n-(2,3,4-$^{13}C_3$)butanoic acid	M3PFBA	1000		1
Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid	MPFHxA	500		2
Perfluoro-n-(1,2,3,4-$^{13}C_4$)octanoic acid	MPFOA	500		4
Perfluoro-n-(1,2,3,4,5-$^{13}C_5$)nonanoic acid	MPFNA	250		5
Perfluoro-n-(1,2-$^{13}C_2$)decanoic acid	MPFDA	250		7
Compound	**Acronym**	**Concentration* (ng/mL)**		**Peak Assignment in Figure 1**
		as the salt	**as the acid**	
Sodium perfluoro-1-hexane($^{18}O_2$)sulfonate	MPFHxS	500	474	3
Sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate	MPFOS	500	479	6

* Concentrations have been rounded to three significant figures.

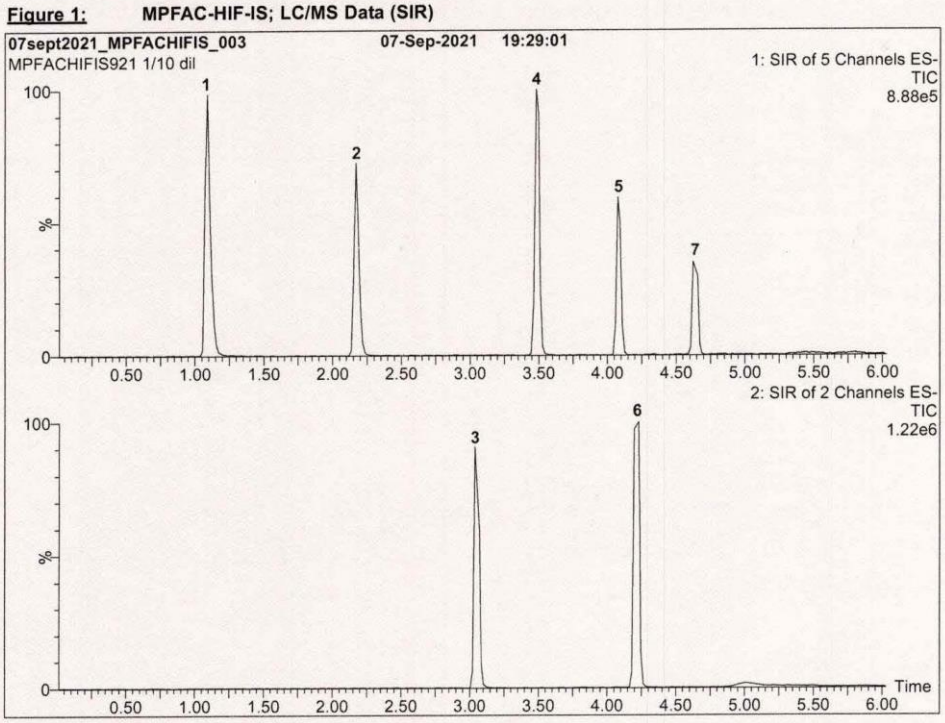
Certified By: _____ **Date:** 10/13/2021 (mm/dd/yyyy)

B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFIS0921 (3 of 5)
rev1

Figure 1: **MPFAC-HIF-IS; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

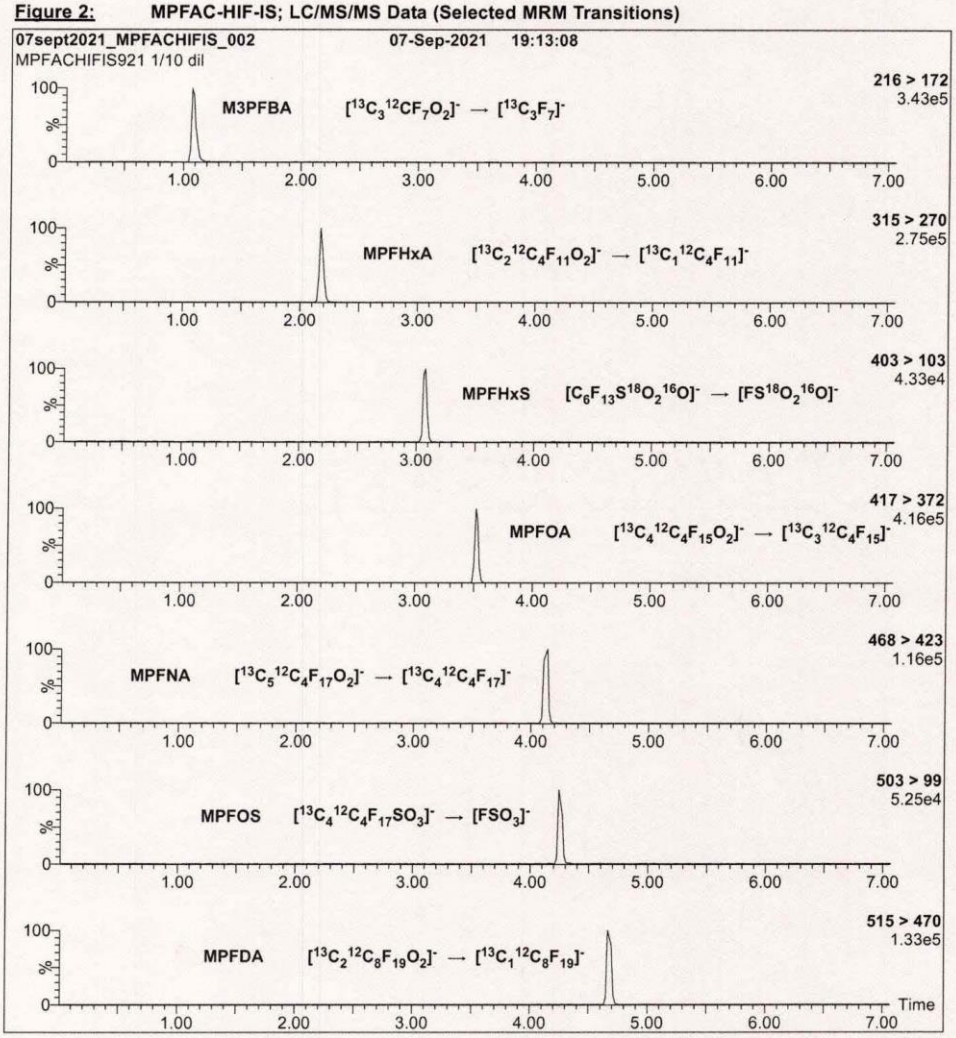
Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (2-6)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFIS0921 (4 of 5)
rev1

Figure 2: **MPFAC-HIF-IS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFAC-HIF-IS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.18e-3
Collision Energy (eV) = 4-64 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

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rev1

Attachment 2 – Extracted Internal Standards (EIS)

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B198**

Description:	MPFAC-HIF-ES-EPA 1633 STOCK EIS mix	Prepared:	02/17/2022
Standard Type:	Other	Expires:	08/06/2024
Solvent:	MeOH/IPA/1% H2O	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	MPFACHIFES0821
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
d3-N-MeFOSAA		1	ug/mL
d5-N-EtFOSAA		1	ug/mL
d7-N-MeFOSE		5	ug/mL
d9-N-EtFOSE		5	ug/mL
d-N-EtFOSA		0.5	ug/mL
d-N-MeFOSA		0.5	ug/mL
M2-4:2FTS		0.938	ug/mL
M2-6:2FTS		0.951	ug/mL
M2-8:2FTS		0.96	ug/mL
M2PFTeDA		0.25	ug/mL
M3HFPO-DA		2	ug/mL
M3PFBS		0.466	ug/mL
M3PFHxS		0.474	ug/mL
M4PFHpA		0.5	ug/mL
M5PFHxA		0.5	ug/mL
M5PFPeA		1	ug/mL
M6PFDA		0.25	ug/mL
M7PFUdA		0.25	ug/mL
M8FOSA		0.5	ug/mL
M8PFOA		0.5	ug/mL
M8PFOS		0.479	ug/mL
M9PFNA		0.25	ug/mL
MPFBA		2	ug/mL
MPFDoA		0.25	ug/mL

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-ES

Mass-Labelled Per- and Poly-fluoroalkyl Substance Extraction Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-ES
LOT NUMBER:	MPFACHIFES0821
SOLVENT(S):	Methanol/Isopropanol (1%)/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	08/05/2021
LAST TESTED: (mm/dd/yyyy)	08/16/2021
EXPIRY DATE: (mm/dd/yyyy)	08/16/2024
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

MPFAC-HIF-ES is a solution/mixture of ten mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4-C_{12}, C_{14}), three mass-labelled (^{13}C) perfluoroalkanesulfonates (C_4, C_6, and C_8), three mass-labelled (one ^{13}C and two ^{2}H) perfluoro-1-octanesulfonamides, three mass-labelled (^{13}C) fluorotelomer sulfonates (4:2, 6:2, and 8:2), two mass-labelled (^{2}H) perfluorooctanesulfonamidoacetic acids, two mass-labelled (^{2}H) perfluorooctanesulfonamidoethanols, and mass-labelled (^{13}C) hexafluoropropylene oxide dimer acid. The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids, mass-labelled perfluoroalkanesulfonates, mass-labelled fluorotelomer sulfonates, perfluoro-1-($^{13}C_8$)octanesulfonamide, and mass-labelled hexafluoropropylene oxide dimer acid all have chemical purities of >98% and isotopic purities of ≥99%. The individual mass-labelled perfluorooctanesulfonamidoacetic acids, mass-labelled perfluorooctanesulfonamidoethanols, and two mass-labelled (^{2}H) perfluoro-1-octanesulfonamides all have chemical purities of >98% and isotopic purities of ≥98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

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SYNTHESIS / CHARACTERIZATION:

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HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

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The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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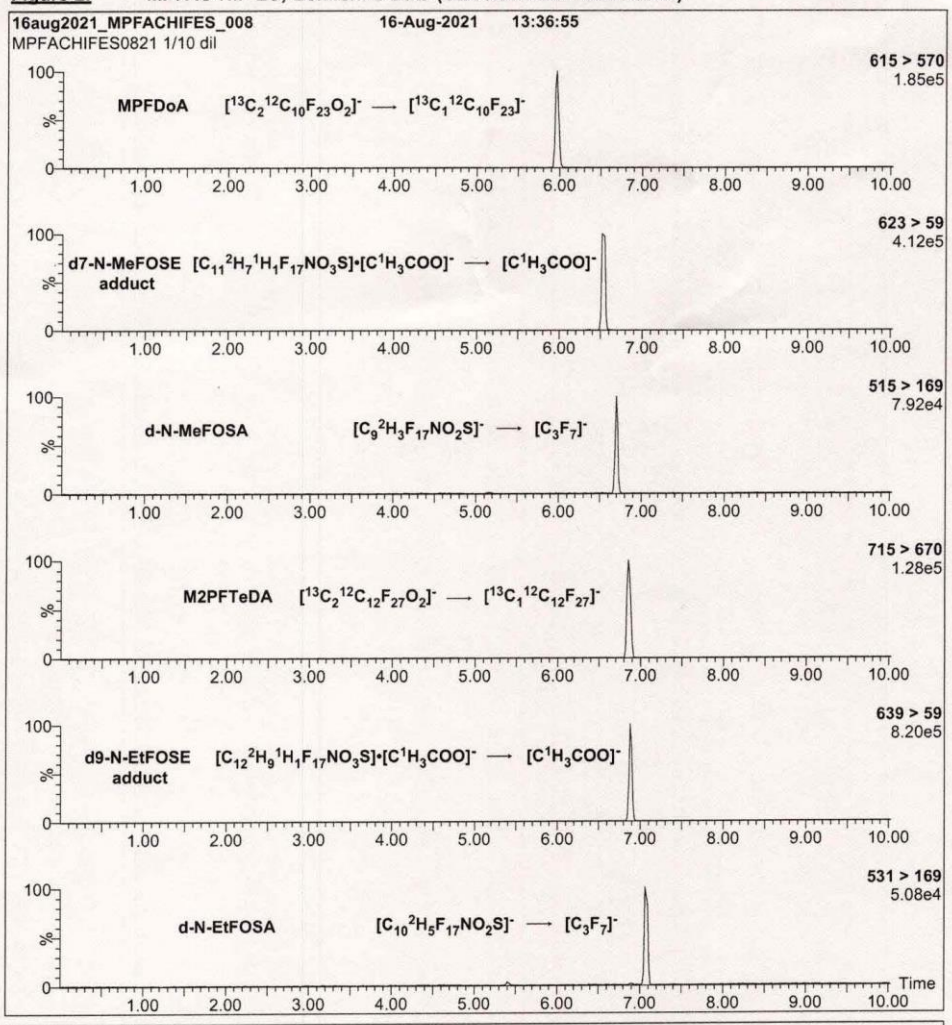
Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (2 of 7)
rev1

Figure 2: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFAC-HIF-ES)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.41e-3
Collision Energy (eV) = 4-64 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (7 of 7)
rev1

Table A: **MPFAC-HIF-ES; Components and Concentrations (ng/mL, ± 5% in Methanol/Isopropanol (1%)/Water (<1%))**

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-($^{13}C_4$)butanoic acid	MPFBA	2000	1
Perfluoro-n-($^{13}C_5$)pentanoic acid	M5PFPeA	1000	2
Perfluoro-n-(1,2,3,4,6-$^{13}C_5$)hexanoic acid	M5PFHxA	500	5
Perfluoro-n-(1,2,3,4-$^{13}C_4$)heptanoic acid	M4PFHpA	500	7
Perfluoro-n-($^{13}C_8$)octanoic acid	M8PFOA	500	10
Perfluoro-n-($^{13}C_9$)nonanoic acid	M9PFNA	250	11
Perfluoro-n-(1,2,3,4,5,6-$^{13}C_6$)decanoic acid	M6PFDA	250	14
Perfluoro-n-(1,2,3,4,5,6,7-$^{13}C_7$)undecanoic acid	M7PFUdA	250	17
Perfluoro-n-(1,2-$^{13}C_2$)dodecanoic acid	MPFDoA	250	19
Perfluoro-n-(1,2-$^{13}C_2$)tetradecanoic acid	M2PFTeDA	250	22
Perfluoro-1-($^{13}C_8$)octanesulfonamide	M8FOSA	500	18
N-methyl-d_3-perfluoro-1-octanesulfonamide	d-N-MeFOSA	500	21
N-ethyl-d_5-perfluoro-1-octanesulfonamide	d-N-EtFOSA	500	24
N-methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1000	15
N-ethyl-d_5-perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1000	16
2-(N-methyl-d_3-perfluoro-1-octanesulfonamido)ethan-d_4-ol	d7-N-MeFOSE	5000	20
2-(N-ethyl-d_5-perfluoro-1-octanesulfonamido)ethan-d_4-ol	d9-N-EtFOSE	5000	23
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)($^{13}C_3$)propanoic acid	M3HFPO-DA	2000	6

Compound	Acronym	Concentration* (ng/mL)		Peak Assignment in Figure 1
		as the salt	as the acid	
Sodium perfluoro-1-(2,3,4-$^{13}C_3$)butanesulfonate	M3PFBS	500	466	3
Sodium perfluoro-1-(1,2,3-$^{13}C_3$)hexanesulfonate	M3PFHxS	500	474	8
Sodium perfluoro-1-($^{13}C_8$)octanesulfonate	M8PFOS	500	479	12
Sodium 1H,1H,2H,2H-perfluoro-(1,2-$^{13}C_2$)hexanesulfonate	M2-4:2FTS	1000	938	4
Sodium 1H,1H,2H,2H-perfluoro-(1,2-$^{13}C_2$)octanesulfonate	M2-6:2FTS	1000	951	9
Sodium 1H,1H,2H,2H-perfluoro-(1,2-$^{13}C_2$)decanesulfonate	M2-8:2FTS	1000	960	13

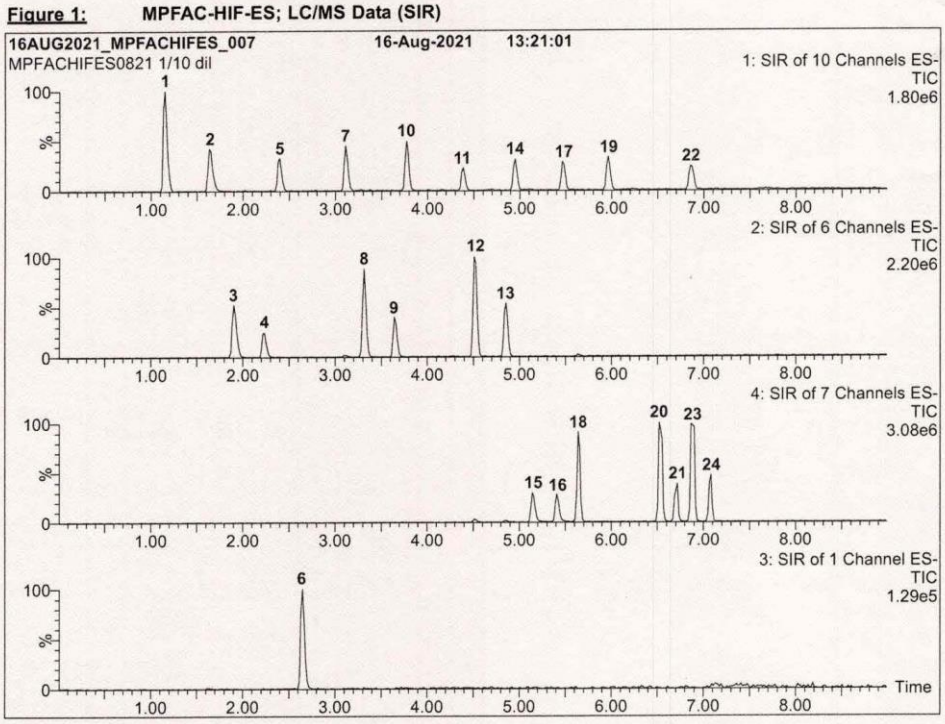
* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 10/13/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (3 of 7)
rev1

Figure 1: **MPFAC-HIF-ES; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

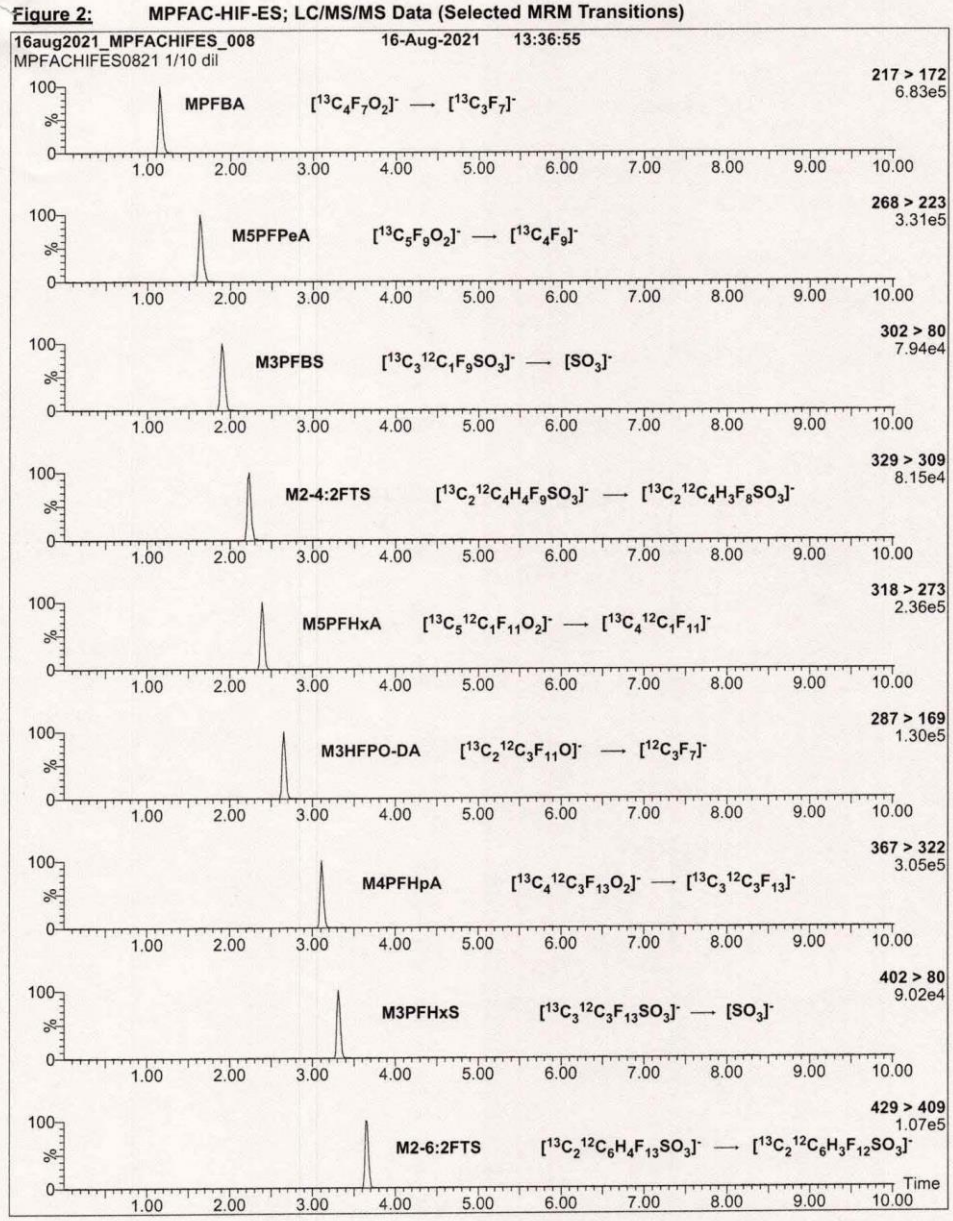
Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (2-44)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (4 of 7)
rev1

Figure 2: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**



Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (5 of 7)
rev1

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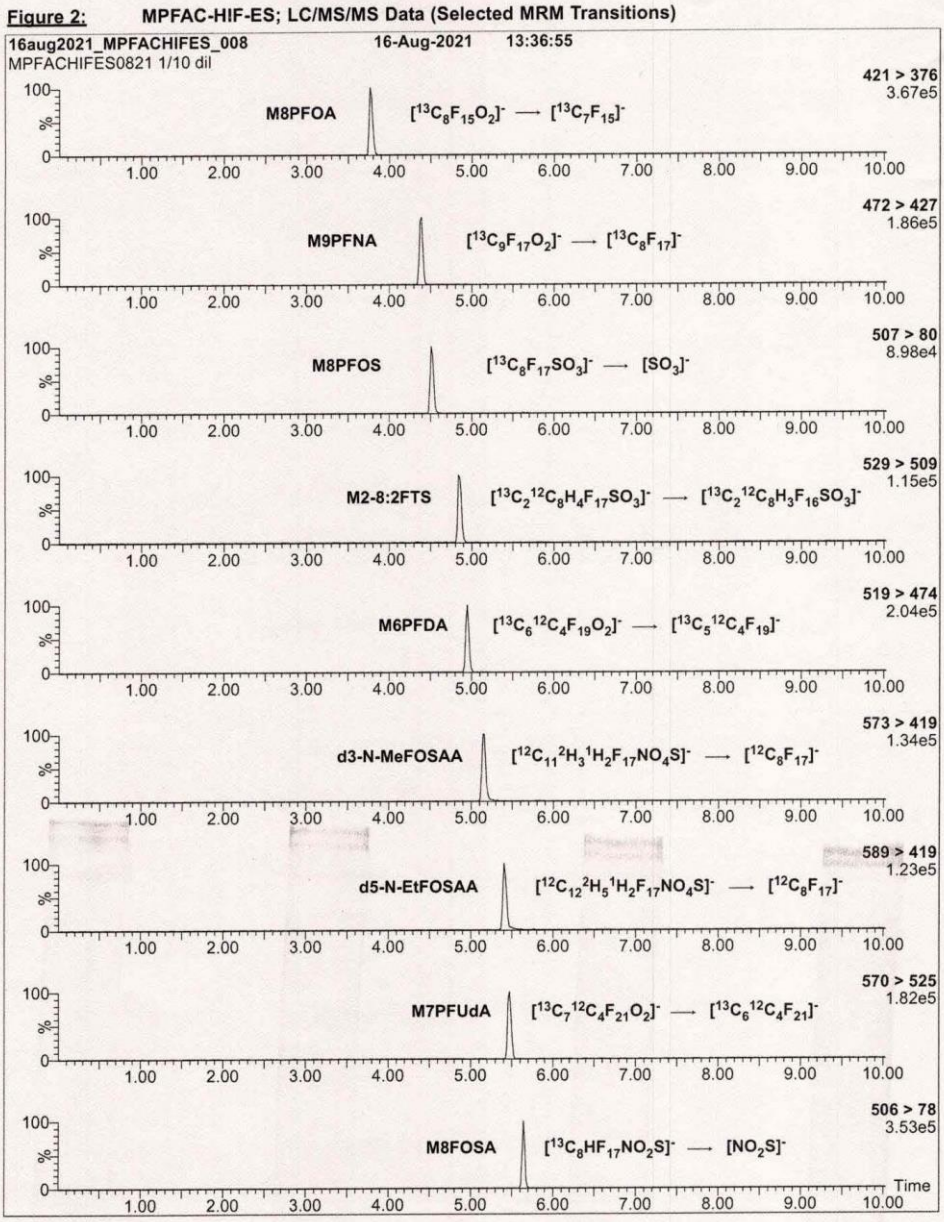
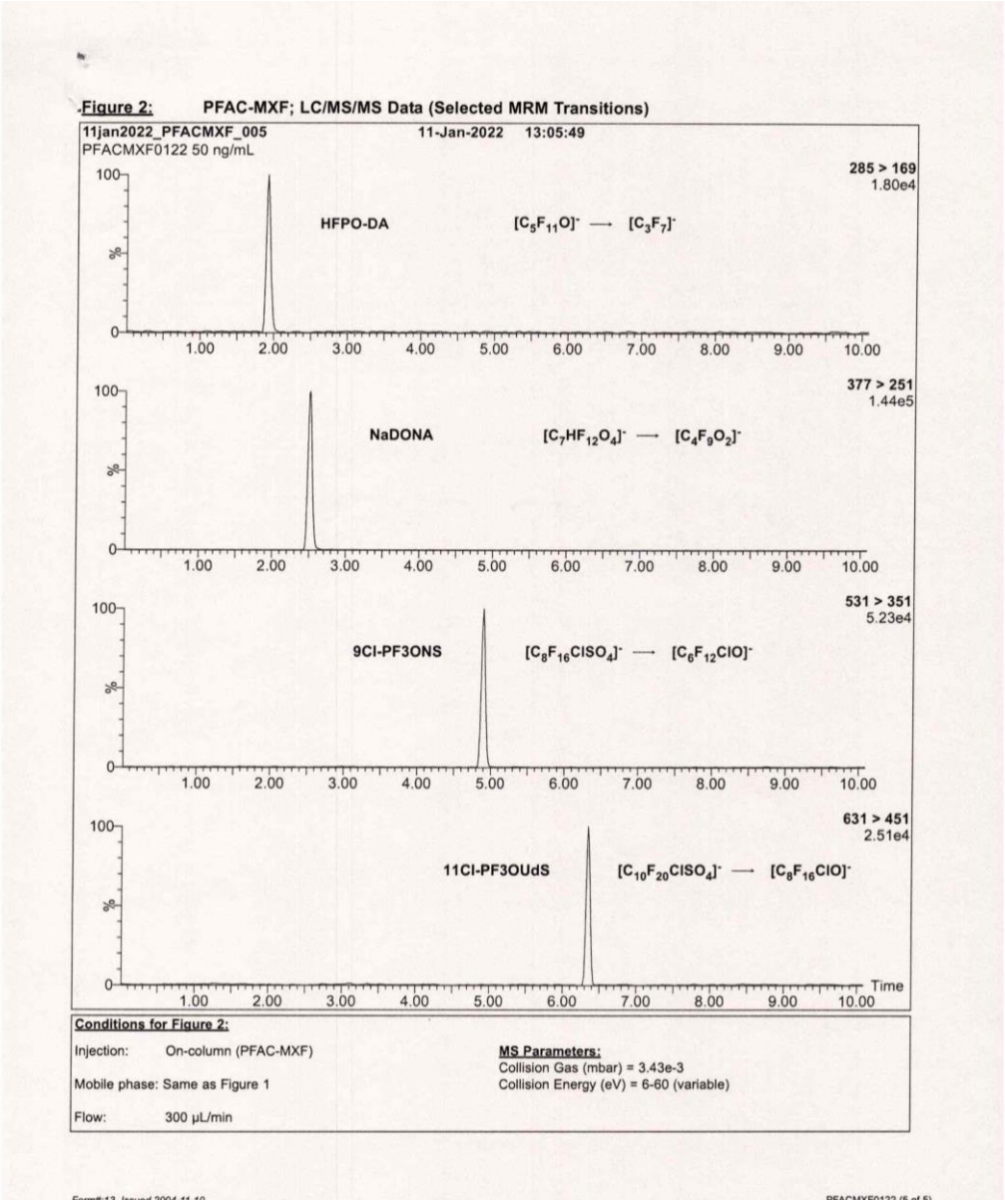


Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (6 of 7)
rev1

Attachment 3 – Target Analyte

Mixtures



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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (2 of 5)
rev0

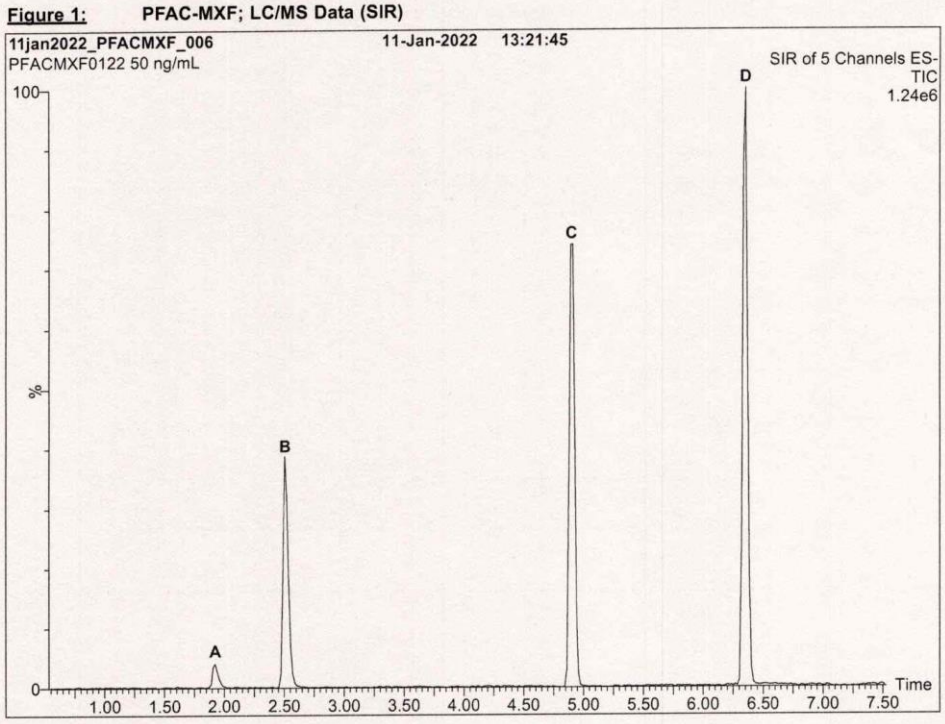
Table A: **PFAC-MXF; Components and Concentrations (ng/mL; ± 5% in Methanol/Water (<1%))**

Compound	Acronym	Concentration* (ng/ml)		Peak Assignment in Figure 1
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid	HFPO-DA	2000		A
Compound	**Acronym**	**Concentration* (ng/mL)**		**Peak Assignment in Figure 1**
		as the salt	**as the acid**	
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2000	1890	B
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9Cl-PF3ONS	2000	1870	C
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	11Cl-PF3OUdS	2000	1890	D

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 01/12/2022 (mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **PFAC-MXF; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H_2O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.75 min.
Time: 12 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (15-74)
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

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Revision#:9, Revised 2020-12-23

PFACMXF0122 (4 of 5)
rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B199**

Description:	PFAC-MXF-Native Repl.STOCK EPA 1633 PFAS	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**01/11/2025**
Solvent:	MeOH/H20	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXF0122
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
11CL-PF3OUdS	763051-92-9	1.89	ug/mL
9CL-PF3ONS	756426-58-1	1.87	ug/mL
ADONA	919005-14-4	1.89	ug/mL
HFPO-DA (Gen-X)	13252-13-6	2	ug/mL

Reviewed By Date

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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXF

Native Replacement PFAS Solution/Mixture

PRODUCT CODE:	PFAC-MXF
LOT NUMBER:	PFACMXF0122
SOLVENT(S):	Methanol / Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	01/10/2022
LAST TESTED: (mm/dd/yyyy)	01/11/2022
EXPIRY DATE: (mm/dd/yyyy)	01/11/2025
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

PFAC-MXF is a solution/mixture of sodium dodecafluoro-3H-4,8-dioxanonanoate (NaDONA), the major and minor components of F-53B (9Cl-PF3ONS and 11Cl-PF3OUdS), and GenX (HFPO-DA). The components and their concentrations are given in Table A.

The individual native components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

Table A: **PFAC-MXI; Components and Concentrations (µg/mL; ± 5% in methanol)**

Compound	Acronym	Concentration (µg/mL)	Peak Assignment in Figure 1
N-methylperfluoro-1-octanesulfonamide	N-MeFOSA	1.00	B
N-ethylperfluoro-1-octanesulfonamide	N-EtFOSA	1.00	D
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	N-MeFOSE	10.0	A
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	N-EtFOSE	10.0	C

Certified By: _____ **Date:** 09/23/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXI0921 (3 of 5)
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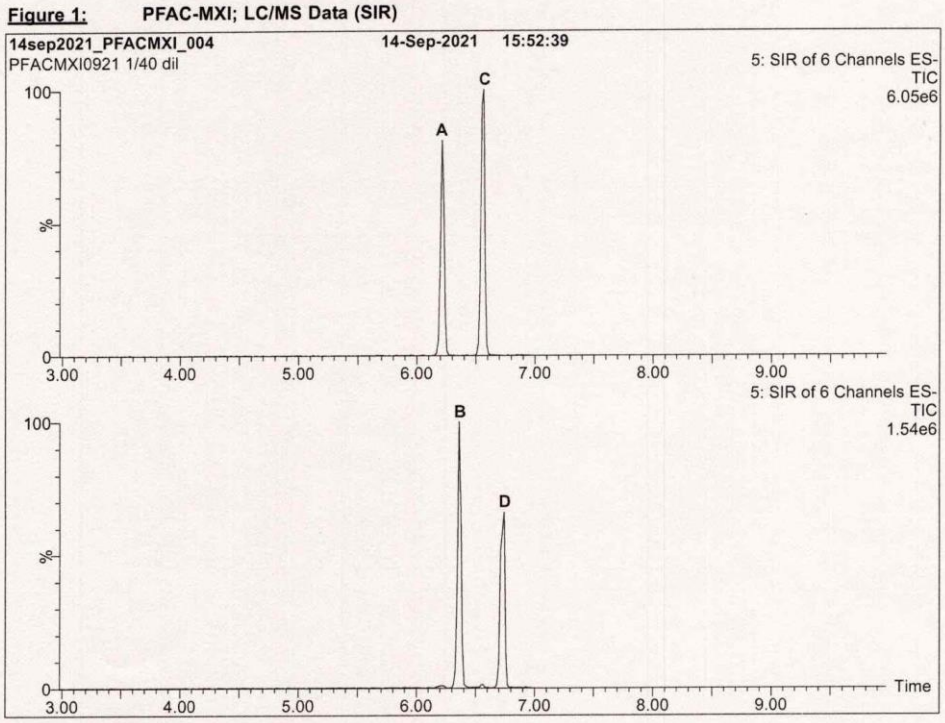
Figure 1: **PFAC-MXI; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

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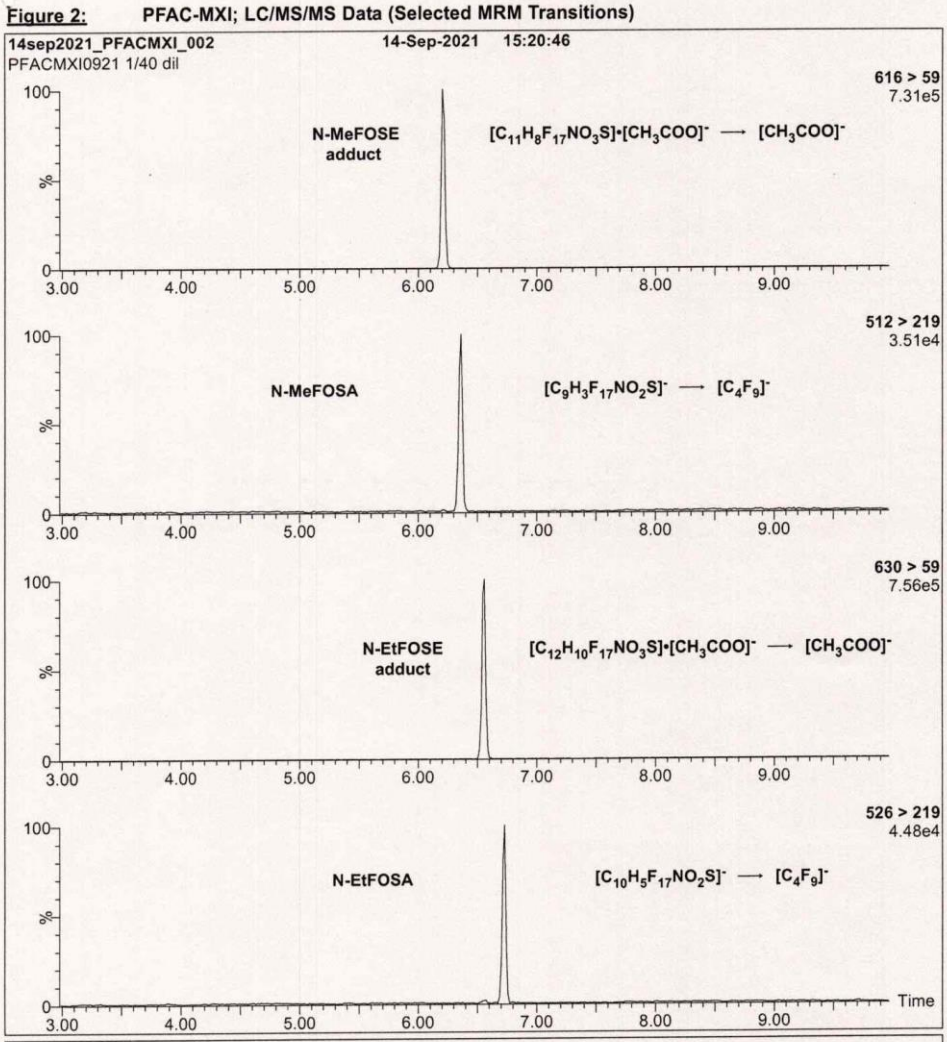
Figure 2: **PFAC-MXI; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXI)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 6-60 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXI0921 (5 of 5)
rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B204**

Description:	PFAC-MXI-EPA 1633 Stock	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**02/17/2023**
Solvent:	Methanol	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXI0921
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
N-EtFOSA	4151-50-2	1	ug/mL
N-EtFOSE	1691-99-2	10	ug/mL
N-MeFOSA	31506-32-8	1	ug/mL
N-MeFOSE	24448-09-7	10	ug/mL

Reviewed By Date

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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXI

Native Perfluorooctanesulfonamide and Perfluorooctanesulfonamidoethanol Solution/Mixture

PRODUCT CODE:	PFAC-MXI
LOT NUMBER:	PFACMXI0921
SOLVENT(S):	Methanol
DATE PREPARED: (mm/dd/yyyy)	09/08/2021
LAST TESTED: (mm/dd/yyyy)	09/14/2021
EXPIRY DATE: (mm/dd/yyyy)	09/14/2026
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

PFAC-MXI is a solution/mixture of two native perfluorooctanesulfonamides (FOSAs) and two native perfluorooctanesulfonamidoethanols (FOSEs). The components and their concentrations are given in Table A.

The individual components have a chemical purity of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

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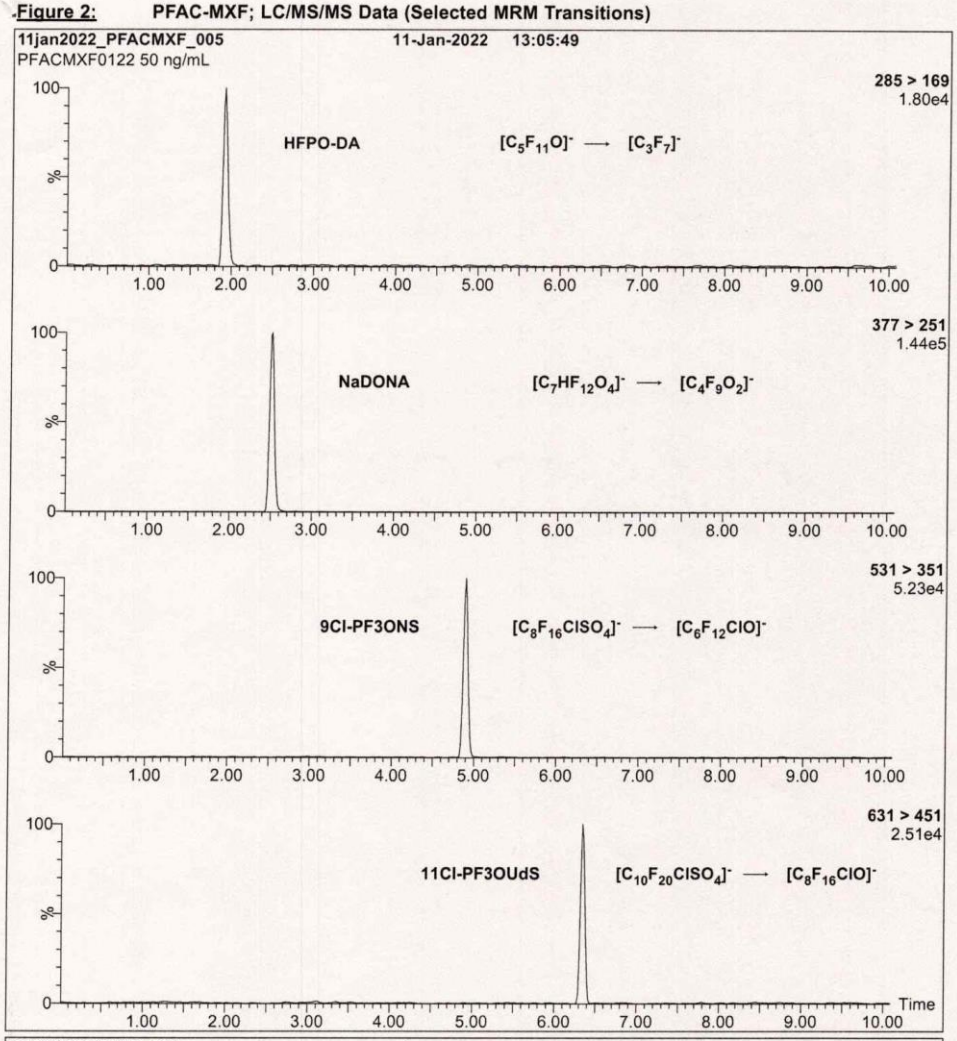
Figure 2: **PFAC-MXF; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXF)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 6-60 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (5 of 5)
rev0

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

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rev0

Table A: **PFAC-MXF; Components and Concentrations (ng/mL; ± 5% in Methanol/Water (<1%))**

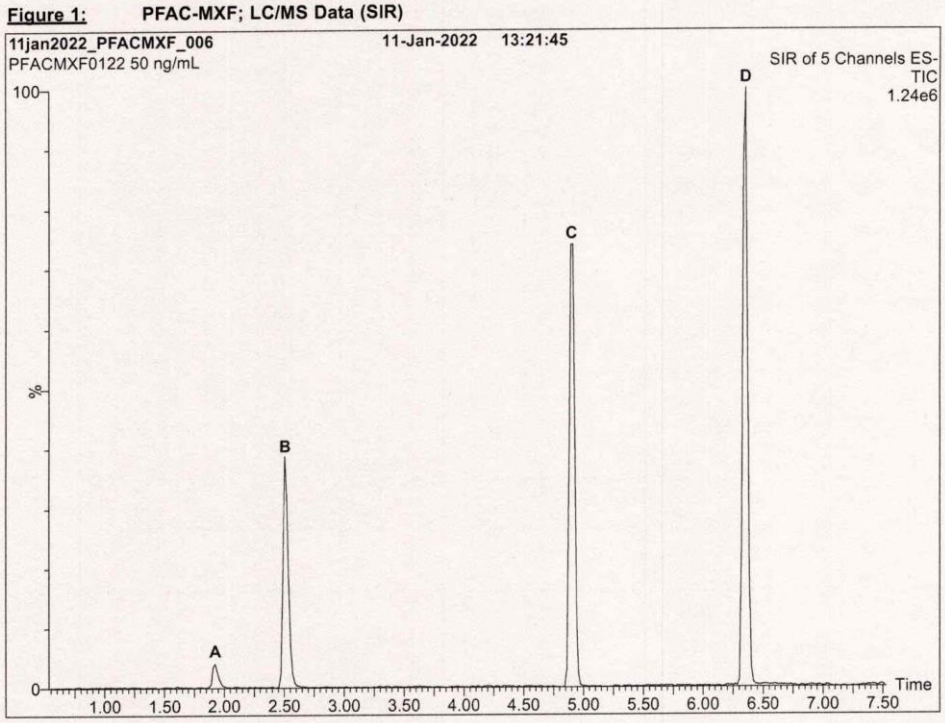
Compound	Acronym	Concentration* (ng/ml)	Peak Assignment in Figure 1
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid	HFPO-DA	2000	A

Compound	Acronym	Concentration* (ng/mL)		Peak Assignment in Figure 1
		as the salt	as the acid	
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2000	1890	B
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9Cl-PF3ONS	2000	1870	C
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	11Cl-PF3OUdS	2000	1890	D

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 01/12/2022
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **PFAC-MXF; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H_2O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.75 min.
Time: 12 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (15-74)
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

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PFACMXF0122 (4 of 5)
rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B199**

Description:	PFAC-MXF-Native Repl.STOCK EPA 1633 PFAS	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**01/11/2025**
Solvent:	MeOH/H20	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXF0122
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
11CL-PF3OUdS	763051-92-9	1.89	ug/mL
9CL-PF3ONS	756426-58-1	1.87	ug/mL
ADONA	919005-14-4	1.89	ug/mL
HFPO-DA (Gen-X)	13252-13-6	2	ug/mL

Reviewed By Date

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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXF

Native Replacement PFAS Solution/Mixture

PRODUCT CODE:	PFAC-MXF
LOT NUMBER:	PFACMXF0122
SOLVENT(S):	Methanol / Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	01/10/2022
LAST TESTED: (mm/dd/yyyy)	01/11/2022
EXPIRY DATE: (mm/dd/yyyy)	01/11/2025
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

PFAC-MXF is a solution/mixture of sodium dodecafluoro-3H-4,8-dioxanonanoate (NaDONA), the major and minor components of F-53B (9Cl-PF3ONS and 11Cl-PF3OUdS), and GenX (HFPO-DA). The components and their concentrations are given in Table A.

The individual native components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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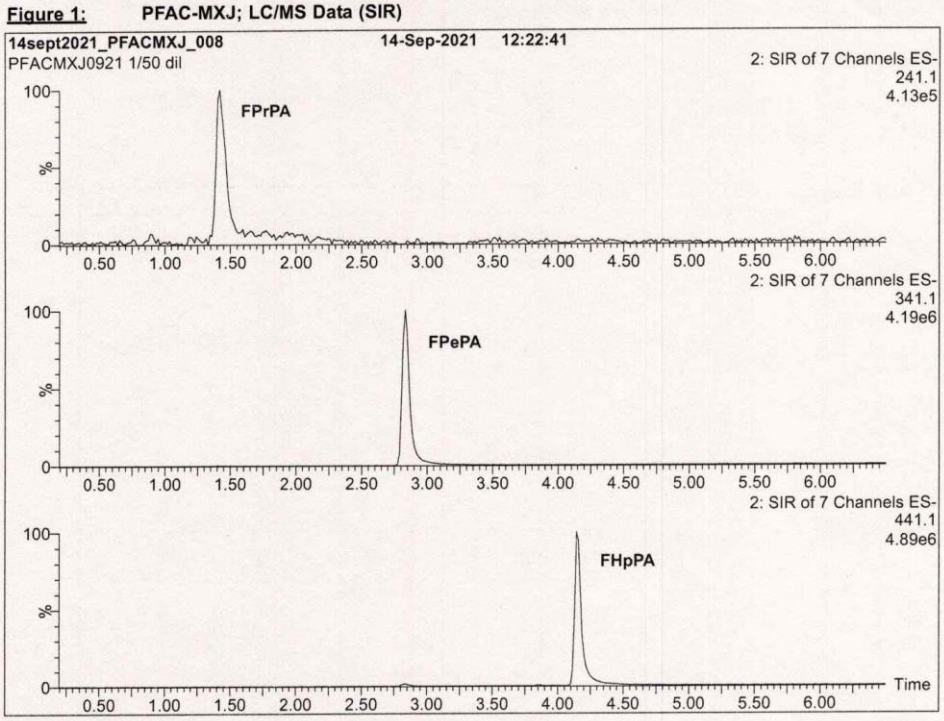
Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

Table A: **PFAC-MXJ; Components and Concentrations (µg/mL; ± 5% in methanol)**

Compound	Acronym	Concentration (µg/mL)
3-Perfluoropropyl propanoic acid	FPrPA	4.00
3-Perfluoropentyl propanoic acid	FPePA	20.0
3-Perfluoroheptyl propanoic acid	FHpPA	20.0

Certified By: _____ **Date:** 10/02/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **PFAC-MXJ; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

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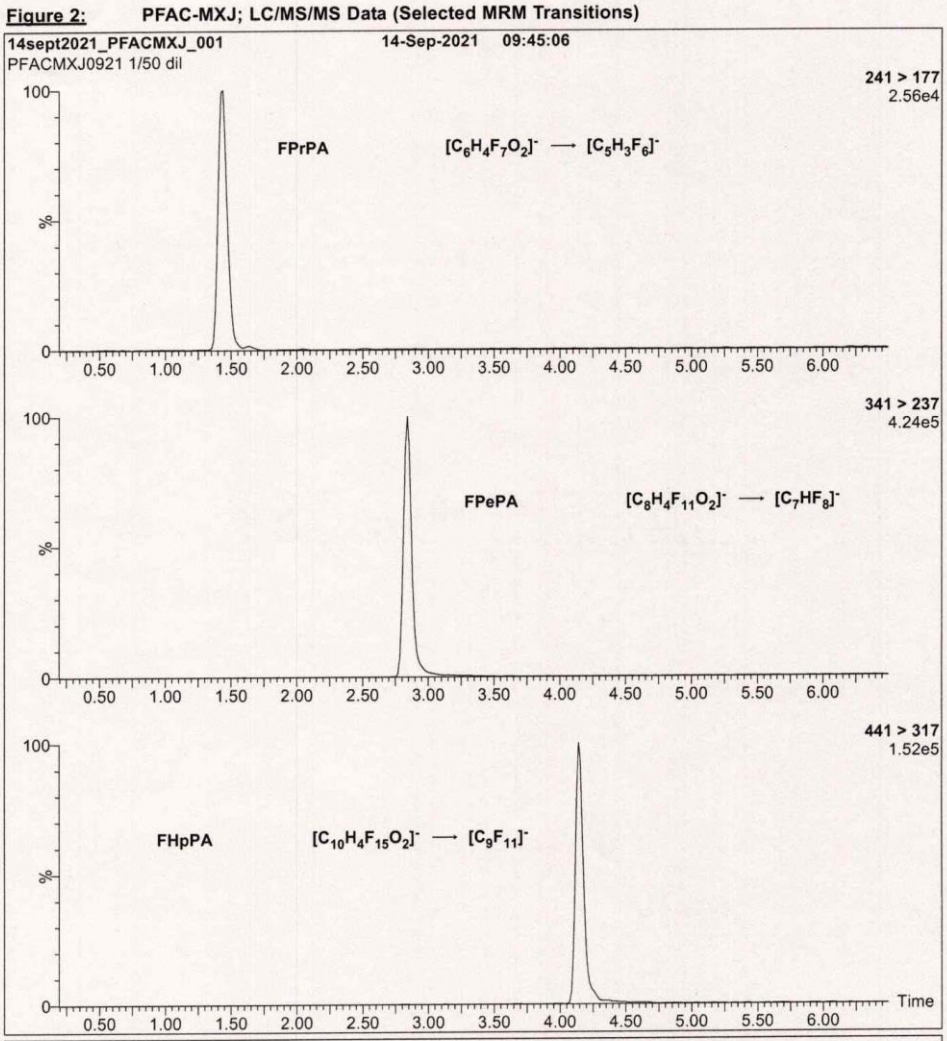
PFACMXJ0921 (4 of 5)
rev1

Figure 2: **PFAC-MXJ; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXJ)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 6-60 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXJ0921 (5 of 5)
rev1

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B205**

Description:	PFAC-MXJ-EPA 1633 Stock mix	Prepared:	02/17/2022
Standard Type:	Other	Expires:	09/14/2026
Solvent:	Methanol	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXJ0921
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
3-Perfluoroheptyl propanoic acid (FHpPA	812-70-4	20	ug/mL
3-Perfluoropentyl propanoic acid (FPePA)	914637-49-3	20	ug/mL
3-Perfluoropropyl propanoic acid (FPrPA)	356-02-2	4	ug/mL

Reviewed By Date

Page 1 of 1

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXJ

Native X:3 Fluorotelomer Carboxylic Acid Solution/Mixture

PRODUCT CODE:	PFAC-MXJ
LOT NUMBER:	PFACMXJ0921
SOLVENT(S):	Methanol
DATE PREPARED: (mm/dd/yyyy)	09/08/2021
LAST TESTED: (mm/dd/yyyy)	09/14/2021
EXPIRY DATE: (mm/dd/yyyy)	09/14/2026
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

PFAC-MXJ is a solution/mixture of three native X:3 fluorotelomer carboxylic acids. The components and their concentrations are given in Table A.

The individual components have a chemical purity of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

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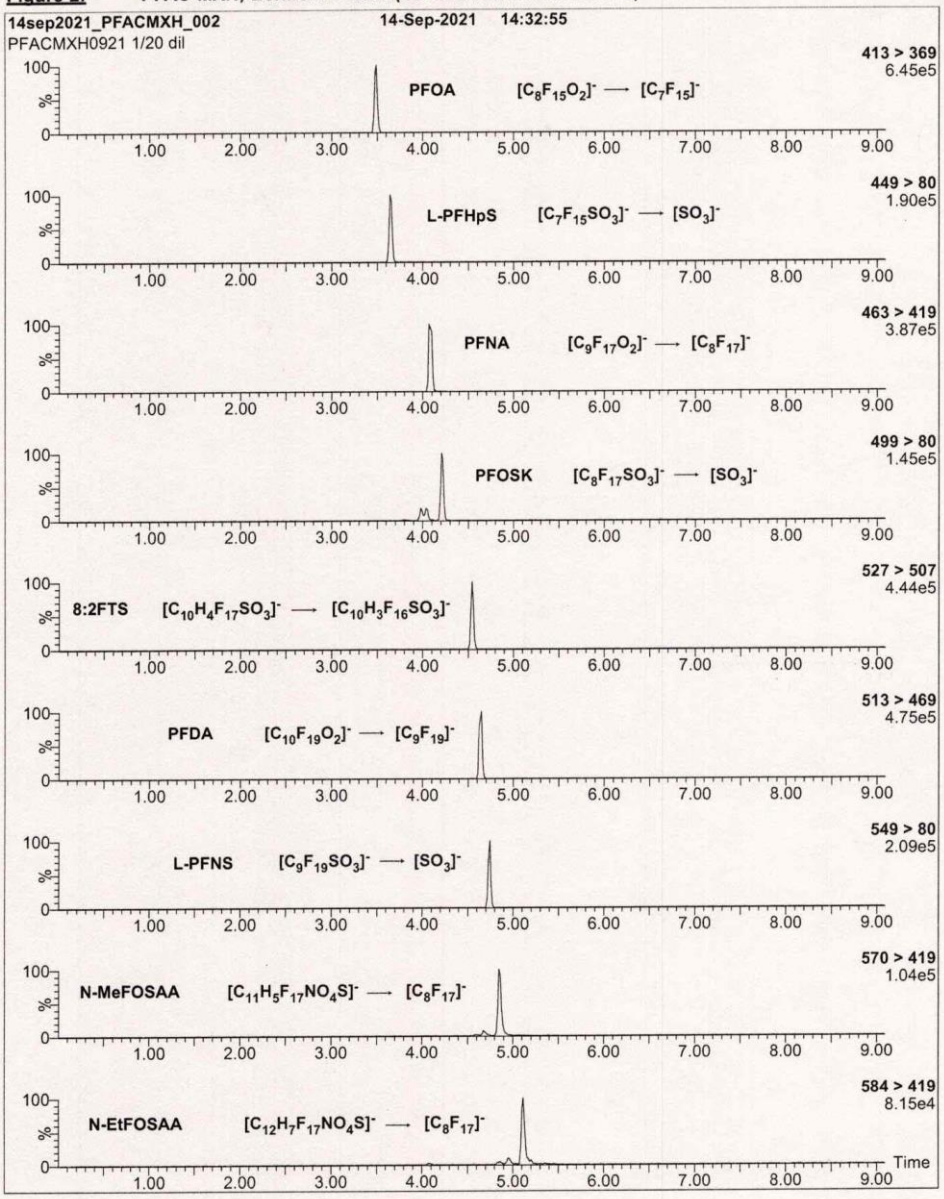
rev1

Figure 2: **PFAC-MXH; LC/MS/MS Data (Selected MRM Transitions)**



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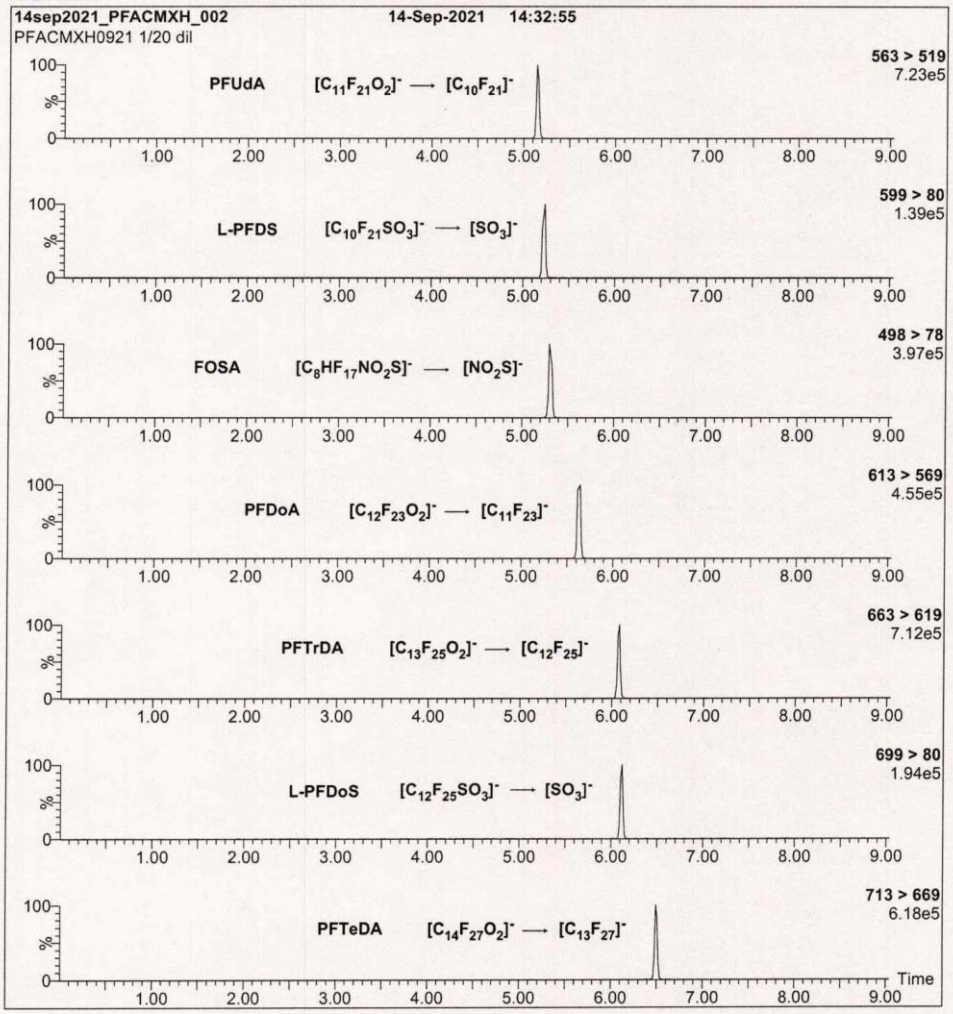
PFACMXH0921 (10 of 11)
rev0

Figure 2: **PFAC-MXH; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXH)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

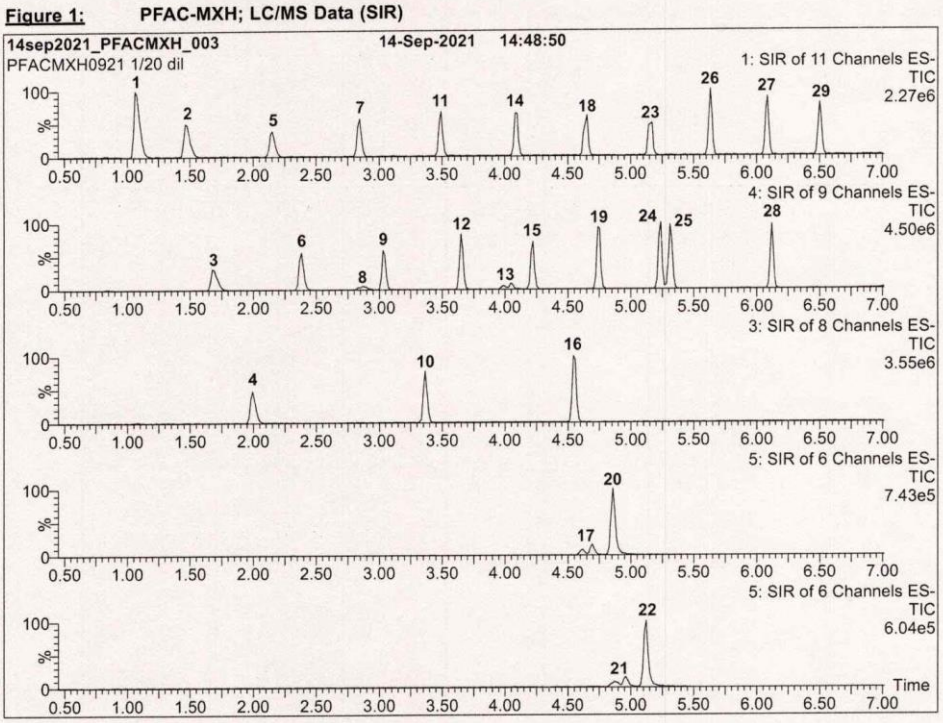
MS Parameters:
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 6-60 (variable)

Table E: **PFOSK; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-octanesulfonate	$CF_3CF_2CF_2CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$	78.8	78.8
2	Potassium 1-trifluoromethylperfluoroheptanesulfonate**	$CF_3CF_2CF_2CF_2CF_2CF_2CF(CF_3)SO_3^-K^+$	1.2	21.1
3	Potassium 2-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF_2CF_2CF_2CF(CF_3)CF_2SO_3^-K^+$	0.6	
4	Potassium 3-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF_2CF_2CF(CF_3)CF_2CF_2SO_3^-K^+$	1.9	
5	Potassium 4-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF_2CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	2.2	
6	Potassium 5-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF(CF_3)CF_2CF_2CF_2CF_2SO_3^-K^+$	4.5	
7	Potassium 6-trifluoromethylperfluoroheptanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$	10.0	
8	Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3C(CF_3)CF_2CF_2CF_2CF_2SO_3^-K^+$	0.2	
9	Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3CF_2C(CF_3)CF_2CF_2CF_2SO_3^-K^+$	0.03	
10	Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	0.4	
11	Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	0.07	

* Percent of total perfluorooctanesulfonate isomers only.
** Systematic Name: Potassium perfluorooctane-2-sulfonate.

Figure 1: **PFAC-MXH; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 2 min
before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

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Figure 2: **PFAC-MXH; LC/MS/MS Data (Selected MRM Transitions)**

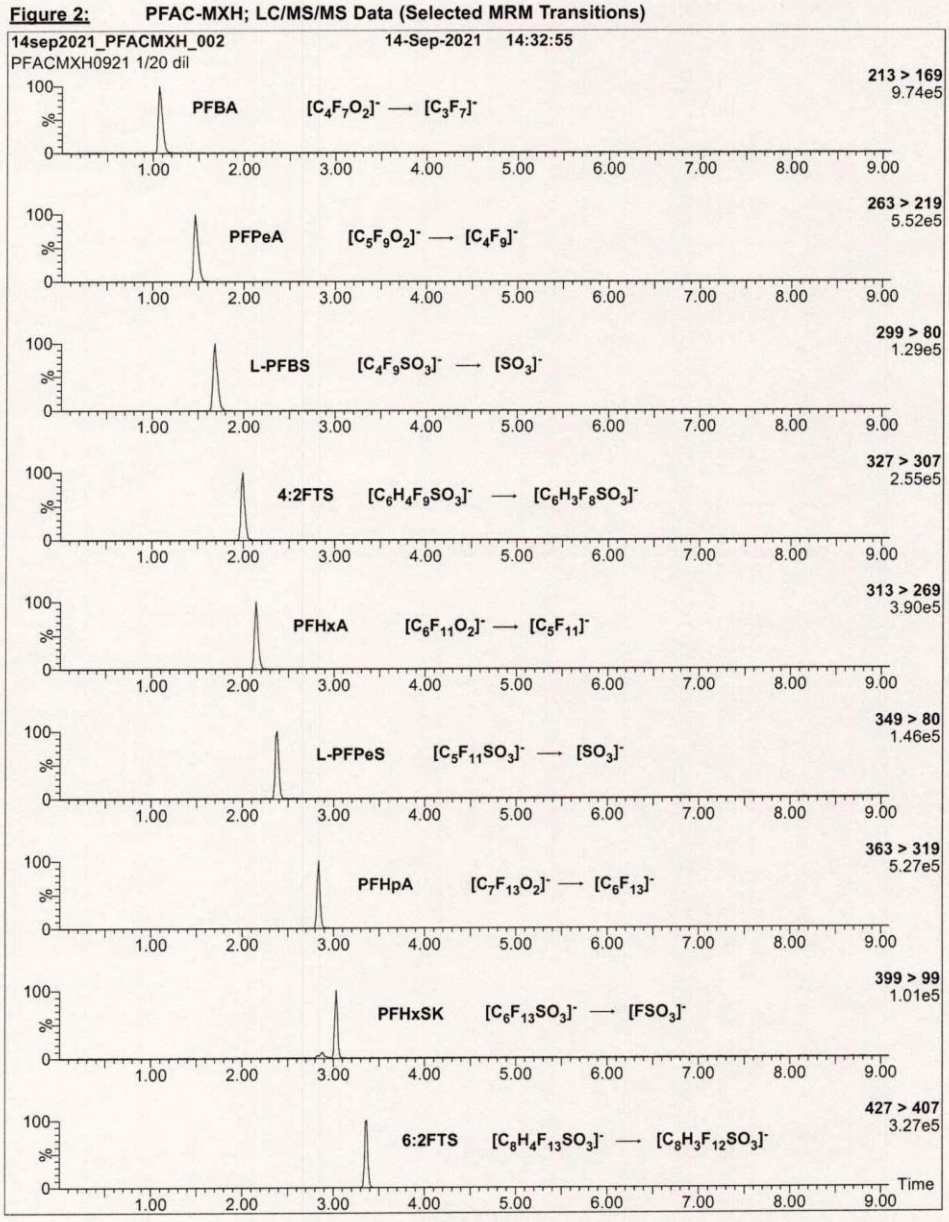

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Table B: **br-NMeFOSAA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	N-methylperfluoro-1-octanesulfonamidoacetic acid	$CF_3(CF_2)_7SO_2N(CH_3)CH_2CO_2H$	76.0	76.0
2	N-methylperfluoro-3-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(CH_3)CH_2CO_2H$	0.7	24.0
3	N-methylperfluoro-4-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(CH_3)CH_2CO_2H$	2.0	
4	N-methylperfluoro-5-methylheptanesulfonamidoacetic acid	$CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(CH_3)CH_2CO_2H$	6.0	
5	N-methylperfluoro-6-methylheptanesulfonamidoacetic acid	$CF_3CF(CF_3)(CF_2)_5SO_2N(CH_3)CH_2CO_2H$	14.0	
6	N-methylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid	$CF_3C(CF_3)_2(CF_2)_4SO_2N(CH_3)CH_2CO_2H$	0.2	
7	Other Unidentified Isomers		1.1	

* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only.

Table C: **br-NEtFOSAA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	N-ethylperfluoro-1-octanesulfonamidoacetic acid	$CF_3(CF_2)_7SO_2NCH_2CO_2H$ C_2H_5	77.5	77.5
2	N-ethylperfluoro-3-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_3CF(CF_2)_2SO_2NCH_2CO_2H$ CF_3 C_2H_5	2.3	22.5
3	N-ethylperfluoro-4-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_2CF(CF_2)_3SO_2NCH_2CO_2H$ CF_3 C_2H_5	2.2	
4	N-ethylperfluoro-5-methylheptanesulfonamidoacetic acid	$CF_3CF_2CF(CF_2)_4SO_2NCH_2CO_2H$ CF_3 C_2H_5	5.4	
5	N-ethylperfluoro-6-methylheptanesulfonamidoacetic acid	$CF_3CF(CF_2)_5SO_2NCH_2CO_2H$ CF_3 C_2H_5	10.4	
6	N-ethylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid	$CF_3C(CF_2)_4SO_2NCH_2CO_2H$ CF_3 C_2H_5	0.3	
7	N-ethylperfluoro-4,5-dimethylhexanesulfonamidoacetic acid	$CF_3CFCF(CF_2)_3SO_2NCH_2CO_2H$ CF_3 C_2H_5	0.3	
8	N-ethylperfluoro-3,5-dimethylhexanesulfonamidoacetic acid	$CF_3CFCF_2CF(CF_2)_2SO_2NCH_2CO_2H$ CF_3 C_2H_5	0.3	
9	Other Unidentified Isomers		1.3	

* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only.

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Revision#:9, Revised 2020-12-23

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rev0

Table D: **PFHxSK; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-hexanesulfonate	$CF_3CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$	81.1	81.1
2	Potassium 1-trifluoromethylperfluoropentanesulfonate**	$CF_3CF_2CF_2CF_2CF(CF_3)SO_3^-K^+$	2.9	18.9
3	Potassium 2-trifluoromethylperfluoropentanesulfonate	$CF_3CF_2CF_2CF(CF_3)CF_2SO_3^-K^+$	1.4	
4	Potassium 3-trifluoromethylperfluoropentanesulfonate	$CF_3CF_2CF(CF_3)CF_2CF_2SO_3^-K^+$	5.0	
5	Potassium 4-trifluoromethylperfluoropentanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	8.9	
6	Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate	$CF_3C(CF_3)CF_2CF_2SO_3^-K^+$	0.2	
7	Other Unidentified Isomers		0.5	

* Percent of total perfluorohexanesulfonate isomers only.
** Systematic Name: Potassium perfluorohexane-2-sulfonate.

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXH

Native Per- and Poly-fluoroalkyl Substance Solution/Mixture

PRODUCT CODE:	PFAC-MXH
LOT NUMBER:	PFACMXH0921
SOLVENT(S):	Methanol / Isopropanol (2%) / Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	09/09/2021
LAST TESTED: (mm/dd/yyyy)	09/14/2021
EXPIRY DATE: (mm/dd/yyyy)	09/14/2026
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

PFAC-MXH is a solution/mixture of eleven native linear perfluoroalkylcarboxylic acids (C_4-C_{14}), eight native perfluoroalkanesulfonates (C_4, C_5, C_7, C_9, C_{10} and C_{12} linear; C_6 and C_8 linear and branched), three native fluorotelomer sulfonates (4:2, 6:2, and 8:2), two native linear and branched perfluorooctanesulfonamidoacetic acids, and perfluoro-1-octanesulfonamide (FOSA). The components and their concentrations are given in Table A.

The individual components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Table B: Isomeric Components and Percent Composition of br-NMeFOSAA
Table C: Isomeric Components and Percent Composition of br-NEtFOSAA
Table D: Isomeric Components and Percent Composition of PFHxSK
Table E: Isomeric Components and Percent Composition of PFOSK
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **PFAC-MXH; Components and Concentrations (µg/mL, ± 5% in methanol / isopropanol (2%) / water (<1%))**

Compound	Acronym	Concentration* (µg/mL)	Peak Assignment in Figure 1
Perfluoro-n-butanoic acid	PFBA	4.00	1
Perfluoro-n-pentanoic acid	PFPeA	2.00	2
Perfluoro-n-hexanoic acid	PFHxA	1.00	5
Perfluoro-n-heptanoic acid	PFHpA	1.00	7
Perfluoro-n-octanoic acid	PFOA	1.00	11
Perfluoro-n-nonanoic acid	PFNA	1.00	14
Perfluoro-n-decanoic acid	PFDA	1.00	18
Perfluoro-n-undecanoic acid	PFUdA	1.00	23
Perfluoro-n-dodecanoic acid	PFDoA	1.00	26
Perfluoro-n-tridecanoic acid	PFTrDA	1.00	27
Perfluoro-n-tetradecanoic acid	PFTeDA	1.00	29
Perfluoro-1-octanesulfonamide	FOSA	1.00	25
N-methylperfluorooctanesulfonamidoacetic acid [a]	N-MeFOSAA: linear isomer	0.760	20
	N-MeFOSAA: ∑ branched isomers	0.240	17
N-ethylperfluorooctanesulfonamidoacetic acid [b]	N-EtFOSAA: linear isomer	0.775	22
	N-EtFOSAA: ∑ branched isomers	0.225	21

Compound	Acronym	Concentration* (µg/mL)		Peak Assignment in Figure 1
		as the salt	as the acid	
Potassium perfluoro-1-butanesulfonate	L-PFBS	1.00	0.887	3
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	1.00	0.941	6
Potassium perfluorohexanesulfonate [c]	PFHxSK: linear isomer	0.811	0.741	9
	PFHxSK: ∑ branched isomers	0.189	0.173	8
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	1.00	0.953	12
Potassium perfluorooctanesulfonate [d]	PFOSK: linear isomer	0.788	0.732	15
	PFOSK: ∑ branched isomers	0.211	0.196	13
Sodium perfluoro-1-nonanesulfonate	L-PFNS	1.00	0.962	19
Sodium perfluoro-1-decanesulfonate	L-PFDS	1.00	0.965	24
Sodium perfluoro-1-dodecanesulfonate	L-PFDoS	1.00	0.970	28
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate	4:2FTS	4.00	3.75	4
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate	6:2FTS	4.00	3.80	10
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate	8:2FTS	4.00	3.84	16

[a] See Table B for percent composition of linear and branched N-MeFOSAA isomers.
[b] See Table C for percent composition of linear and branched N-EtFOSAA isomers.
[c] See Table D for percent composition of linear and branched PFHxSK isomers.
[d] See Table E for percent composition of linear and branched PFOSK isomers.

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 09/23/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXH0921 (3 of 11)
rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B201**

Description:	PFAC-MXH STOCK PFAS EPA 1633	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**09/14/2026**
Solvent:	MeOH/IPA/H2O	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXH0921
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
1H,1H,2H,2H-Perfluorodecanesulfonic acid	39108-34-4	3.84	ug/mL
1H,1H,2H,2H-Perfluorohexanesulfonic acid	757124-72-4	3.75	ug/mL
1H,1H,2H,2H-Perfluorooctanesulfonic acid	27619-97-2	3.8	ug/mL
N-EtFOSAA	2991-50-6	1	ug/mL
N-MeFOSAA	2355-31-9	1	ug/mL
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	0.965	ug/mL
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	0.953	ug/mL
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	0.962	ug/mL
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6	1	ug/mL
Perfluoro-1-pentanesulfonate (PFPeS)	2706-91-4	0.941	ug/mL
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.887	ug/mL
Perfluorodecanesulfonic acid(PFDS)	335-77-3	0.965	ug/mL
Perfluorodecanoic acid (PFDA)	335-76-2	1	ug/mL
Perfluorododecanoic acid (PFDoA)	307-55-1	1	ug/mL
Perfluoroheptanoic acid (PFHpA)	375-85-9	1	ug/mL
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.914	ug/mL
Perfluorohexanoic acid (PFHxA)	307-24-4	1	ug/mL
Perfluoro-n-butanoic acid (PFBA)	375-22-4	4	ug/mL
Perfluorononanoic acid (PFNA)	375-95-1	1	ug/mL
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.928	ug/mL
Perfluorooctanoic acid (PFOA)	335-67-1	1	ug/mL
Perfluoropentanoic acid (PFPeA)	2706-90-3	1	ug/mL
Perfluorotetradecanoic acid (PFTA)	376-06-7	1	ug/mL
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	1	ug/mL
Perfluoroundecanoic acid (PFUnA)	2058-94-8	1	ug/mL

Reviewed By Date

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Attachment 4 – Calibration Concentrations, nominal

Calibration Solutions (ng/mL) Compound CS1 (LOQ) CS2 Perfluoroalkyl carboxylic			CS3	CS4 (CV[1])	CS5	CS6	CS7[2]
acids							
PFBA	0.8	2	5	10	20	50	250
PFPeA	0.4	1	2.5	5	10	25	125
PFHxA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFHpA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFOA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFNA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFUnA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDoA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFTrDA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFTeDA	0.2	0.5	1.25	2.5	5	12.5	62.5
Perfluoroalkyl sulfonic acids							
PFBS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFPeS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFHxS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFHpS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFOS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFNS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDoS	0.2	0.5	1.25	2.5	5	12.5	62.5
Fluorotelomer sulfonic acids							
4:2FTS	0.8	2	5	10	20	50	NA
6:2FTS	0.8	2	5	10	20	50	NA
8:2FTS	0.8	2	5	10	20	50	NA
Perfluorooctane sulfonamides							
PFOSA	0.2	0.5	1.25	2.5	5	12.5	62.5
NMeFOSA	0.2	0.5	1.25	2.5	5	12.5	62.5
NEtFOSA	0.2	0.5	1.25	2.5	5	12.5	62.5
Perfluorooctane sulfonamidoacetic acids							
NMeFOSAA	0.2	0.5	1.25	2.5	5	12.5	62.5
NEtFOSAA	0.2	0.5	1.25	2.5	5	12.5	62.5
Perfluorooctane sulfonamide ethanols							
NMeFOSE	2	5	12.5	25	50	125	625
NEtFOSE	2	5	12.5	25	50	125	625
Per- and polyfluoroether carboxylic acids							
HFPO-DA	0.8	2	5	10	20	50	250
ADONA	0.8	2	5	10	20	50	250
PFMPA	0.4	1	2.5	5	10	25	125
PFMBA	0.4	1	2.5	5	10	25	125
NFDHA	0.4	1	2.5	5	10	25	125
Ether sulfonic acids							
9Cl-PF3ONS	0.8	2	5	10	20	50	250
11Cl-PF3OUdS	0.8	2	5	10	20	50	250
PFEESA	0.4	1	2.5	5	10	25	125

Calibration Solutions (ng/mL) Compound CS1 (LOQ)	CS2 Fluorotelomer carboxylic		CS3	CS4 (CV[1])	CS5	CS6	CS7[2]
acids							
3:3FTCA	1.0	2.5	6.26	12.5	25	62.4	312
5:3FTCA	5.0	12.5	31.3	62.5	125	312	1560
7:3FTCA	5.0	12.5	31.3	62.5	125	312	1560
Extracted Internal Standard (EIS) Analytes							
$^{13}C_4$-PFBA	10	10	10	10	10	10	10
$^{13}C_5$-PFPeA	5	5	5	5	5	5	5
$^{13}C_5$-PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_4$-PFHpA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_8$-PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_9$-PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_6$-PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_7$-PFUnA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_2$-PFDoA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_2$-PFTeDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_3$-PFBS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_3$-PFHxS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_8$-PFOS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_2$-4:2FTS	5	5	5	5	5	5	5
$^{13}C_2$-6:2FTS	5	5	5	5	5	5	5
$^{13}C_2$-8:2FTS	5	5	5	5	5	5	5
$^{13}C_8$-PFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
D_3-NMeFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
D_5-NEtFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
D_3-NMeFOSAA	5	5	5	5	5	5	5
D_5-NEtFOSAA	5	5	5	5	5	5	5
D_7-NMeFOSE	25	25	25	25	25	25	25
D_9-NEtFOSE	25	25	25	25	25	25	25
$^{13}C_3$-HFPO-DA	10	10	10	10	10	10	10
Non-extracted Internal Standard (NIS) Analytes							
$^{13}C_3$-PFBA	5	5	5	5	5	5	5
$^{13}C_2$-PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_4$-PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_5$-PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_2$-PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{18}O_2$-PFHxS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_4$-PFOS	2.5	2.5	2.5	2.5	2.5	2.5	2.5

[1] This calibration point is used as the calibration verification (CV)

[2] A minimum of six contiguous calibrations standards are required for linear models and a minimum of seven calibration standards are required for second-order models.

Attachment 5 -HPLC Method Parameters

HPLC Acquisition Method Report

Stroke A
- **Automatic Stroke Calculation A**: Yes

Compress A
- **Compressibility Mode A**: Compressibility Value Set
- **Compressibility A**: 70 10e-6/bar

Compress B
- **Compressibility Mode B**: Compressibility Value Set
- **Compressibility B**: 90 10e-6/bar

Stop Time
- **Stoptime Mode**: Time set
- **Stoptime**: 10.00 min

Post Time
- **Posttime Mode**: Time set
- **Posttime**: 1.50 min

Injection
- Injection with needle wash
- 3.00 µL

Solvent Composition

	Channel	Name 1	Name 2	Selected	Used	Percent
1	A	Water 5mM ammonium acetate		Ch. 1	Yes	90.00 %
2	B	Methanol		Ch. 1	Yes	10.00 %

Timetable

	Time	A	B	Flow
1	3.50 min	50.00 %	50.00 %	0.400 mL/min
2	8.00 min	10.00 %	90.00 %	0.400 mL/min
3	8.50 min	90.00 %	10.00 %	0.400 mL/min

Name: **Column Comp.** Module: **G1316C**

Left Temperature Control
- **Temperature Control Mode**: Temperature Set
- **Temperature**: 50.0 °C

Enable Analysis Left Temperature
- **Enable Analysis Left Temperature On**: Yes
- **Enable Analysis Left Temperature Value**: 0.8 °C

Right Temperature Control
- **Right temperature Control Mode**: Temperature Set
- **Right temperature**: 50.0 °C

Enable Analysis Right Temperature
- **Enable Analysis Right Temperature On**: Yes
- **Enable Analysis Right Temperature Value**: 0.8 °C

Stop Time
- **Stoptime Mode**: As pump/injector

Post Time
- **Posttime Mode**: Off

Timetable

Valve Position: Position 1 (Port 1 -> 2)

Ready when front door open: Yes

Attachment 6 - Triple Quadrupole Acquisition Method

Acquisition Method Report

Agilent Technologies

Acquisition Method Info

Method Name PFAS1633_ACQ_092922.m

Method Path D:\MassHunter\methods\PFAS1633_ACQ_092922.m

Method Description EPA 1633_Target PFAS Isotope Dilution_Acquisition

Device List

HiP Sampler
Binary Pump
Column Comp.
QQQ

MS QQQ Mass Spectrometer

Ion Source	AJS ESI	**Tune File**	D:\MassHunter\Tune\QQQ\G6460C\atunes.TUNE.XML
Stop Mode	No Limit/As Pump	**Stop Time (min)**	1
Time Filter	On	**Time Filter Width (min)**	0.07
LC->Waste Pre Row	N/A	**LC->Waste Post Row**	N/A

Time Segments

Index	Start Time (min)	Scan Type	Ion Mode	Div Valve	Delta EMV	Store	Cycle Time (ms)	Triggered?	MRM Repeats
1	0	DynamicMRM	ESI+Agilent Jet Stream	To MS	350	Yes	550	Yes	3

Time Segment 1

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
11-Cl-PF3OUdS	No	631	Unit/Enh (6490)	451	Unit/Enh (6490)	Yes	No	170	33	4	7.62	3	Negative
1H,1H,2H,2H-perfluoro-1-decanesulfonate (8 2F TS)	No	527	Unit/Enh (6490)	507	Unit/Enh (6490)	Yes	No	170	28	4	7.14	3	Negative
1H,1H,2H,2H-perfluoro-1-decanesulfonate (8 2F TS)	No	527	Unit/Enh (6490)	80.9	Unit/Enh (6490)	Yes	No	170	40	4	7.14	3	Negative
1H,1H,2H,2H-perfluoro-1-hexanesulfonate (4 2F TS)	No	327	Unit/Enh (6490)	307	Unit/Enh (6490)	Yes	No	162	20	4	4.788	3	Negative
1H,1H,2H,2H-perfluoro-1-hexanesulfonate (4 2F TS)	No	327	Unit/Enh (6490)	80.9	Unit/Enh (6490)	Yes	No	162	36	4	4.788	3	Negative
1H,1H,2H,2H-perfluoro-1-octanesulfonate (6 2F TS)	No	427	Unit/Enh (6490)	407	Unit/Enh (6490)	Yes	No	162	24	4	6.168	3	Negative
1H,1H,2H,2H-perfluoro-1-octanesulfonate (6 2F TS)	No	427	Unit/Enh (6490)	79.7	Unit/Enh (6490)	Yes	No	162	48	4	6.168	3	Negative
3:3FTCA	No	241	Unit/Enh (6490)	177	Unit/Enh (6490)	Yes	No	74	4	4	3.4	3	Negative
3-3FTCA	No	241	Unit/Enh (6490)	117	Unit/Enh (6490)	Yes	No	74	44	4	3.4	3	Negative

Report generation date: 18-Oct-2022 09:01:43 AM

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Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
5-3FTCA	No	341	Unit/Enh (6490)	237	Unit/Enh (6490)	Yes	No	84	12	4	5.73	3	Negative
5-3FTCA	No	341	Unit/Enh (6490)	217	Unit/Enh (6490)	Yes	No	84	24	4	5.73	3	Negative
7-3FTCA	No	441	Unit/Enh (6490)	337	Unit/Enh (6490)	Yes	No	76	12	4	6.7	3	Negative
7-3FTCA	No	441	Unit/Enh (6490)	317	Unit/Enh (6490)	Yes	No	76	24	4	6.7	3	Negative
9-Cl-PF3ONS	No	531	Unit/Enh (6490)	351	Unit/Enh (6490)	Yes	No	175	29	4	6.89	3	Negative
ADONA	No	377	Unit/Enh (6490)	251	Unit/Enh (6490)	Yes	No	103	9	4	5.62	3	Negative
ADONA	No	377	Unit/Enh (6490)	85	Unit/Enh (6490)	Yes	No	103	37	4	5.62	3	Negative
d3-NMeFOSA	No	515	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	134	20	4	7.17	3	Negative
d3-N-MeFOSAA	No	572.99	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	130	20	4	7.17	3	Negative
d5-NEtFOSA	No	531	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	150	20	4	8.52	3	Negative
d5-NEtFOSA	No	531	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	150	20	4	8.52	3	Negative
d5-N-EtFOSAA	No	589.02	Unit/Enh (6490)	530.9	Unit/Enh (6490)	Yes	No	130	20	4	7.36	3	Negative
d5-N-EtFOSAA	No	589.02	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	130	20	4	7.36	3	Negative
d7-NMeFOSE	No	623	Unit/Enh (6490)	310	Unit/Enh (6490)	Yes	No	150	15	4	8.28	3	Negative
d7-NMeFOSE	No	623	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	88	15	4	8.28	3	Negative
d9-NEtFOSE	No	639	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	150	15	4	8.6	3	Negative
HFPO-DA	No	285	Unit/Enh (6490)	169.1	Unit/Enh (6490)	Yes	No	100	20	4	4.95	3	Negative
M2-4-2FTS	No	329	Unit/Enh (6490)	309	Unit/Enh (6490)	Yes	No	156	20	4	4.787	3	Negative
M2-4-2FTS	No	329	Unit/Enh (6490)	81	Unit/Enh (6490)	Yes	No	156	28	4	4.787	3	Negative
M2-6-2FTS	No	429	Unit/Enh (6490)	409	Unit/Enh (6490)	Yes	No	162	24	4	6.01	3	Negative
M2-6-2FTS	No	429	Unit/Enh (6490)	81	Unit/Enh (6490)	Yes	No	162	40	4	6.01	3	Negative
M2-8-2FTS	No	529	Unit/Enh (6490)	509	Unit/Enh (6490)	Yes	No	165	28	4	6.98	3	Negative
M2-8-2FTS	No	529	Unit/Enh (6490)	81	Unit/Enh (6490)	Yes	No	165	40	4	6.98	3	Negative
M2PFTeDA	No	715	Unit/Enh (6490)	670	Unit/Enh (6490)	Yes	No	62	12	4	8.25	3	Negative
M3-HFPO-DA	No	287	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	90	5	4	4.99	3	Negative
M3PFBA	Yes	216	Unit/Enh (6490)	172	Unit/Enh (6490)	Yes	No	90	5	4	1.2	2	Negative
M3PFBS	No	302	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	114	32	4	3.94	3	Negative
M3PFBS	No	302	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	114	40	4	3.94	3	Negative
M3PFHxS	No	402	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	165	40	4	5.55	3	Negative
M3PFHxS	No	402	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	165	48	4	5.55	3	Negative
M4PFHpA	No	367	Unit/Enh (6490)	322	Unit/Enh (6490)	Yes	No	124	8	4	5.601	3	Negative
M5PFHxA	No	318	Unit/Enh (6490)	273	Unit/Enh (6490)	Yes	No	70	4	4	5.47	3	Negative
M5PFHxA	No	318	Unit/Enh (6490)	120	Unit/Enh (6490)	Yes	No	70	4	4	5.47	3	Negative
M6PFDA	No	519	Unit/Enh (6490)	473.9	Unit/Enh (6490)	Yes	No	59	8	4	6.99	3	Negative
M7PFUdA	No	570	Unit/Enh (6490)	525	Unit/Enh (6490)	Yes	No	64	8	4	7.38	3	Negative
MPFDA	Yes	514.98	Unit/Enh (6490)	469.8	Unit/Enh (6490)	Yes	No	94	5	4	6.972	2	Negative
MPFHxA	Yes	314.99	Unit/Enh (6490)	269.8	Unit/Enh (6490)	Yes	No	86	4	4	4.705	2	Negative
MPFHxA	Yes	314.99	Unit/Enh (6490)	120	Unit/Enh (6490)	Yes	No	86	4	4	4.705	2	Negative
MPFHxS	Yes	403	Unit/Enh (6490)	103	Unit/Enh (6490)	Yes	No	110	37	4	5.63	2	Negative
MPFHxS	Yes	403	Unit/Enh (6490)	84	Unit/Enh (6490)	Yes	No	110	40	4	5.63	2	Negative
MPFNA	Yes	468	Unit/Enh (6490)	423	Unit/Enh (6490)	Yes	No	66	4	4	6.541	2	Negative
MPFOA	Yes	417	Unit/Enh (6490)	372	Unit/Enh (6490)	Yes	No	84	4	4	6.03	2	Negative
MPFOS	Yes	502.96	Unit/Enh (6490)	99	Unit/Enh (6490)	Yes	No	148	48	4	6.57	3	Negative

Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
MPFOS	Yes	502.96	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	148	54	4	6.57	3	Negative
NEtFOSA	No	526	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	120	20	4	8.528	3	Negative
NEtFOSA	No	526	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	120	20	4	8.528	3	Negative
N-EtFOSAA	No	584	Unit/Enh (6490)	525.9	Unit/Enh (6490)	Yes	No	130	20	4	7.521	3	Negative
N-EtFOSAA	No	584	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	130	20	4	7.521	3	Negative
NEtFOSE	No	630	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	120	20	4	8.301	3	Negative
NFDHA	No	295	Unit/Enh (6490)	201.1	Unit/Enh (6490)	Yes	No	92	2	4	4.641	3	Negative
NFDHA	No	295	Unit/Enh (6490)	84.9	Unit/Enh (6490)	Yes	No	92	34	4	4.641	3	Negative
NMeFOSA	No	512	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	120	20	4	8.298	3	Negative
NMeFOSA	No	512	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	120	20	4	8.298	3	Negative
N-MeFOSAA	No	570	Unit/Enh (6490)	511.9	Unit/Enh (6490)	Yes	No	150	20	4	7.335	3	Negative
N-MeFOSAA	No	570	Unit/Enh (6490)	418.9	Unit/Enh (6490)	Yes	No	150	20	4	7.335	3	Negative
NMeFOSE	No	616	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	120	20	4	8.301	3	Negative
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	No	506	Unit/Enh (6490)	78	Unit/Enh (6490)	Yes	No	162	48	4	7.59	3	Negative
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	No	507	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	174	48	4	6.59	3	Negative
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	No	507	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	174	54	4	6.59	3	Negative
Perfluoro-1-decanesulfonate (L-PFDS)	No	598.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	156	50	4	7.546	3	Negative
Perfluoro-1-decanesulfonate (L-PFDS)	No	598.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	100	60	4	7.546	3	Negative
Perfluoro-1-heptanesulfonate (L-PFHpS)	No	448.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	162	48	4	6.252	3	Negative
Perfluoro-1-heptanesulfonate (L-PFHpS)	No	448.9	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	162	48	4	6.252	3	Negative
Perfluoro-1-octanesulfonamide (FOSA)	No	497.9	Unit/Enh (6490)	478	Unit/Enh (6490)	Yes	No	156	100	4	7.651	3	Negative
Perfluoro-1-octanesulfonamide (FOSA)	No	497.9	Unit/Enh (6490)	78	Unit/Enh (6490)	Yes	No	156	40	4	7.651	3	Negative
Perfluoro-1-pentanesulfonate (L-PFPeS)	No	348.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	36	4	5.042	3	Negative
Perfluoro-1-pentanesulfonate (L-PFPeS)	No	348.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	40	4	5.042	3	Negative

Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
Perfluorobutanesulfonic acid (PFBS)	No	298.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	32	4	4.042	3	Negative
Perfluorobutanesulfonic acid (PFBS)	No	298.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	36	4	4.042	3	Negative
Perfluorodecanoic acid (PFDA)	No	513	Unit/Enh (6490)	468.8	Unit/Enh (6490)	Yes	No	90	8	4	7.158	3	Negative
Perfluorodecanoic acid (PFDA)	No	513	Unit/Enh (6490)	268.8	Unit/Enh (6490)	Yes	No	90	16	4	7.158	3	Negative
Perfluorododecanesulfonic acid (PFDoS)	No	699	Unit/Enh (6490)	99	Unit/Enh (6490)	Yes	No	100	60	4	7.984	3	Negative
Perfluorododecanesulfonic acid (PFDoS)	No	699	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	156	50	4	7.984	3	Negative
Perfluorododecanoic acid (PFDoA)	No	613	Unit/Enh (6490)	568.8	Unit/Enh (6490)	Yes	No	90	12	4	7.876	3	Negative
Perfluorododecanoic acid (PFDoA)	No	613	Unit/Enh (6490)	168.7	Unit/Enh (6490)	Yes	No	90	28	4	7.876	3	Negative
Perfluoroheptanoic acid (PFHpA)	No	363	Unit/Enh (6490)	318.8	Unit/Enh (6490)	Yes	No	90	8	4	5.601	3	Negative
Perfluoroheptanoic acid (PFHpA)	No	363	Unit/Enh (6490)	168.9	Unit/Enh (6490)	Yes	No	90	16	4	5.601	3	Negative
Perfluorohexanesulfonic acid (PFHxS)	No	398.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	40	4	5.685	3	Negative
Perfluorohexanesulfonic acid (PFHxS)	No	398.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	44	4	5.685	3	Negative
Perfluorohexanoic acid (PFHxA)	No	313	Unit/Enh (6490)	268.9	Unit/Enh (6490)	Yes	No	70	4	4	4.856	3	Negative
Perfluorohexanoic acid (PFHxA)	No	313	Unit/Enh (6490)	119	Unit/Enh (6490)	Yes	No	70	20	4	4.856	3	Negative
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	No	615	Unit/Enh (6490)	570	Unit/Enh (6490)	Yes	No	53	8	4	7.71	3	Negative
Perfluoro-n-[13C4]butanoic acid (MPFBA)	No	217	Unit/Enh (6490)	172	Unit/Enh (6490)	Yes	No	59	4	4	1.22	3	Negative
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	No	268	Unit/Enh (6490)	223	Unit/Enh (6490)	Yes	No	62	4	4	3.44	3	Negative
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	No	421	Unit/Enh (6490)	376	Unit/Enh (6490)	Yes	No	59	4	4	6.05	3	Negative
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	No	421	Unit/Enh (6490)	172	Unit/Enh (6490)	Yes	No	59	16	4	6.05	3	Negative

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Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)	No	472	Unit/Enh (6490)	427	Unit/Enh (6490)	Yes	No	59	8	4	6.56	3	Negative
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)	No	472	Unit/Enh (6490)	223	Unit/Enh (6490)	Yes	No	59	16	4	6.56	3	Negative
Perfluoro-n-butanoic acid (PFBA)	No	213	Unit/Enh (6490)	169.9	Unit/Enh (6490)	Yes	No	70	4	4	1.246	3	Negative
Perfluorononanesulfonate (L-PFNS)	No	548.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	159	48	4	7.174	3	Negative
Perfluorononanesulfonate (L-PFNS)	No	548.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	159	48	4	7.174	3	Negative
Perfluorononanoic acid (PFNA)	No	463	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	90	8	4	6.718	3	Negative
Perfluorononanoic acid (PFNA)	No	463	Unit/Enh (6490)	218.8	Unit/Enh (6490)	Yes	No	90	16	4	6.718	3	Negative
Perfluoro-n-pentanoic acid (PFPeA)	No	263	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	62	4	4	3.526	3	Negative
Perfluorooctanesulfonic acid (PFOS)	No	498.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	44	4	6.743	3	Negative
Perfluorooctanesulfonic acid (PFOS)	No	498.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	84	4	6.743	3	Negative
Perfluorooctanoic acid (PFOA)	No	413	Unit/Enh (6490)	368.8	Unit/Enh (6490)	Yes	No	90	8	4	6.202	3	Negative
Perfluorooctanoic acid (PFOA)	No	413	Unit/Enh (6490)	168.9	Unit/Enh (6490)	Yes	No	90	16	4	6.202	3	Negative
Perfluorotetradecanoic acid (PFTA)	No	713	Unit/Enh (6490)	669	Unit/Enh (6490)	Yes	No	110	12	4	8.414	3	Negative
Perfluorotetradecanoic acid (PFTA)	No	713	Unit/Enh (6490)	168.8	Unit/Enh (6490)	Yes	No	110	28	4	8.414	3	Negative
Perfluorotridecanoic acid (PFTrDA)	No	663	Unit/Enh (6490)	618.8	Unit/Enh (6490)	Yes	No	90	12	4	8.164	3	Negative
Perfluoroundecanoic acid (PFUnA)	No	563	Unit/Enh (6490)	519	Unit/Enh (6490)	Yes	No	90	8	4	7.538	3	Negative
Perfluoroundecanoic acid (PFUnA)	No	563	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	90	24	4	7.538	3	Negative
PFEESA	No	315	Unit/Enh (6490)	135	Unit/Enh (6490)	Yes	No	112	26	4	4.464	3	Negative
PFEESA	No	315	Unit/Enh (6490)	83	Unit/Enh (6490)	Yes	No	112	14	4	4.464	3	Negative
PFMBA	No	279	Unit/Enh (6490)	85	Unit/Enh (6490)	Yes	No	75	18	4	4.011	3	Negative
PFMPA	No	229	Unit/Enh (6490)	85	Unit/Enh (6490)	Yes	No	59	6	4	2.15	3	Negative

Scan Parameters

Data Stg	Threshold
Centroid	0

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Acquisition Method Report

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Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	230	230
Gas Flow (l/min)	5	5
Nebulizer (psi)	15	15
SheathGasHeater	350	350
SheathGasFlow	12	12
Capillary (V)	3500	2500
VCharging	500	0

Chromatograms

Chrom Type	Label	Offset	Y-Range
TIC	TIC	0	10000000

Instrument Curves

Actual

Name: HiP Sampler **Module: G4226A**

Auxiliary	
Draw Speed	100.0 µL/min
Eject Speed	400.0 µL/min
Draw Position Offset	1.5 mm
Wait Time After Drawing	1.2 s
Sample Flush Out Factor	5.0
Vial/Well bottom sensing	Yes
Injection	
Injection Mode	Injection with needle wash
Injection Volume	3.00 µL
Needle Wash	
Needle Wash Location	Flush Port
Wash Time	10.0 s
High throughput	
Automatic Delay Volume Reduction	No
Overlapped Injection	
Enable Overlapped Injection	No
Valve Switching	
Valve Movements	0
Valve Switch Time 1	
Switch Time 1 Enabled	No
Valve Switch Time 2	
Switch Time 2 Enabled	No
Valve Switch Time 3	
Switch Time 3 Enabled	No
Valve Switch Time 4	
Switch Time 4 Enabled	No
Stop Time	
Stoptime Mode	As pump/No limit
Post Time	
Posttime Mode	Off

Name: Binary Pump **Module: G4220A**

Flow	0.400 mL/min
Use Solvent Types	No
Stroke Mode	Synchronized
Low Pressure Limit	0.00 bar
High Pressure Limit	600.00 bar
Max. Flow Ramp Up	100.000 mL/min²
Max. Flow Ramp Down	100.000 mL/min²
Expected Mixer	No check

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Appendix C
Health and Safety Plan

Health and Safety Plan

for
127 12th Street
Remedial Investigation Work Plan

127 12th Street
Brooklyn, New York
Block 1220, Lot 52
BCP Site No. C224411

Submitted to:
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Prepared for:
Di Maio Enterprises Inc.
127 12th Street
Brooklyn, NY 11215

Prepared by:
Matthew M. Carroll, PE
1085 Sackett Avenue
Bronx, NY 10461

December 2025

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1.0 INTRODUCTION

This Health and Safety Plan (HASP) has been prepared in conformance with the Occupational Safety and Health Administration (OSHA) standards and guidance that govern site investigation activities, other applicable regulations, and Matthew M. Carroll, PE health and safety policies and procedures. The purpose of this HASP is the protection of field personnel and others during the implementation of a Remedial Investigation.

The Site, located at 127 12th Street, Brooklyn, New York (Tax Block 1020, Lot 52), is a rectangular shaped parcel located midblock on the northeastern side 12th Street. The Site is bound by 12th Street to the south, industrial and manufacturing properties to the east, a parking lot and recreational facility/NYC park to the west, and residential properties followed by 11th Street to the north. The Site is approximately 17,500 square feet (SF) and has approximately 179 feet of frontage along 12th Street. The Site is currently improved with a two-story masonry building built in 1931. The Site building houses one commercial space with an area of approximately 25,334 SF. The building is currently utilized for metal finishing, predominantly through spray booth painting and lacquering operations. The building footprint comprises approximately 85% of the total Site area with 158 feet of frontage along 12th Street and a depth of 96 feet. The remainder of the Site is paved, with the easterner portion used for parking.

The Site lot is zoned M2-1 denoting light industrial uses, such as woodworking shops, repair shops, and wholesale service and storage facilities. M2-1 districts are often characterized by one- or two-story warehouses with loading bays and are often buffers between M2 or M3 districts and adjacent residential or commercial districts. Offices, hotels and most retail uses are also permitted under this zoning designation. The area surrounding the Site consists of industrial/manufacturing to the east and south, residential to the north and open space and outdoor recreation to the east.

1.1 Scope of HASP

This HASP includes safety procedures to be used by field staff during the following activities:

- Collection of soil samples from soil borings;
- Collection of groundwater samples from groundwater monitoring wells; and,
- Collection of soil vapor samples from soil vapor points.

Subcontractors will ensure that performance of the work is in compliance with this HASP and applicable laws and regulations.

2.0 PROJECT SAFETY AUTHORITY

The following personnel are responsible for project health and safety under this HASP.

- Project Manager, Alana Carroll
- Health and Safety Officer (HSO), Ashley Platt

In addition, each individual working at the Site will be responsible for compliance with this HASP and general safe working practices. All Site workers will have the authority to stop work if a potentially hazardous situation or event is observed.

2.1 Designated Personnel

The Project Manager is responsible for the overall operation of the project, including compliance with the HASP and general safe work practices. The Project Manager may also act as the Health and Safety Officer (HSO) for this project.

Matthew M. Carroll, PE will appoint one of its on-site personnel as the on-site HSO. This individual will be responsible for the implementation of the HASP. The HSO will have a 4-year college degree in occupational safety or a related science/engineering field, and at least two (2) years of experience in implementation of air monitoring and hazardous materials sampling programs. The HSO will have completed a 40-hour training course that meets OSHA requirements of 29 CFR Part 1910, Occupational Safety and Health Standards.

The HSO will be present on-site during all field operations involving drilling or other subsurface disturbance and will be responsible for all health and safety activities and the delegation of duties to the field crew. The HSO has stop-work authorization, which he/she will execute on his/her determination of an imminent safety hazard, emergency situation, or other potentially dangerous situation. If the HSO must be absent from the field, a replacement who is familiar with the Construction Health and Safety Plan, air monitoring and personnel protective equipment (PPE) will be designated.

3.0 HAZARD ASSESSMENT AND CONTROL MEASURES

The following description of historical Site operations has been provided by others and can be found in many previous reports included as Appendix A. The assumptions and observations provided in the following paragraphs are not those of Matthew M. Carroll, PE.

According to our review of the available Sanborn Fire Insurance Maps, the Site was developed sometime prior to 1886 with multiple dwellings and a chemical works. By 1904, the chemical works had become "city laundry" and the multiple dwellings remained. By 1915, "city laundry" had become "domestic steam laundry" and had expanded their commercial footprint, leaving three of four dwellings remaining. A coat and apron supply company also occupied the Site lot in 1915. By 1938, only one dwelling remained and the majority of the lot was utilized as "domestic steam laundry" with the exception of a small carpenter shop abutting the laundry. By 1950, the remaining dwelling abutting the laundry to the east is no longer depicted and the former carpenter space has been replaced with a dwelling. Between 1950 and 1969 the laundry ceased operations and the space is used for unspecified manufacturing and contains a truck loading area; the dwelling abutting the commercial space to the west is still depicted. By 1977, it appears that the entire Site lot is occupied by the current use operator. The Site lot remains unchanged from this time. City directory listings document historic use of the Site as a metal manufacturer from circa 1960 to 2014, consistent with the current use. Additional listings reviewed include plastics manufacturing, enamel spraying, commercial supermarket and a coffee shop.

Summary

Soil results were compared to NYSDEC Protection of Groundwater (PGW) and Restricted Commercial Use Soil Cleanup Objectives (SCOs) as listed in 6 NYCRR Part 375-6.8(a) and (b) the October 21, 2010 NYSDEC DEC Policy CP-51. SCOs PGW SCOs are used as a screening value for potential groundwater impacts and the RCU SCOs are consistent with the current and assumed future use of the Site.

Soil

Limited Phase II Investigations were completed in 2023 and 2024 by Tenen Environmental, LLC. PCE was detected in exceedance of its Protection of Groundwater SCO of 1.3 micrograms per kilogram (mg/kg or ppm) in five soil samples, collected between 1-3 ft-bg and 3-5 ft-bg. Additionally, cis-1,2-DCE and vinyl chloride, breakdown products of PCE, were each detected in one soil sample collected from 3-5 ft-bg exceeding their Protection of Groundwater SCO of 0.25 ppm and 0.02 ppm, respectively. PCE was detected at a max. concentration of 47 ppm; cis-1,2-DCE was detected at a concentration of 2.5 ppm; and, vinyl chloride was detected at a concentration of 0.3 ppm. In general, the highest concentrations of cVOCs in soil were detected in the northern portion of the Site.

One SVOC, the polyaromatic hydrocarbon (PAH) benzo(a)pyrene, was detected in one soil sample collected from 3-5 ft-bg at a concentration exceeding the Restricted-Commercial Use SCO of 1 ppm. Benzo(a)pyrene was detected at a concentration of 3.2 ppm. No other SVOCs were detected in exceedance of RCSCOs in any soil samples.

One metal, arsenic, was detected in one soil sample collected from 0-2 ft-bg at a concentration exceeding the Restricted-Commercial SCO of 16 ppm. Arsenic was detected at a concentration of 39 ppm. No other metals were detected in exceedance of RCSCOs in any soil samples.

VOCs, pesticides and PCBs were not detected in exceedance of Restricted-Commercial SCOs in any soil samples.

Groundwater

Groundwater results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values (Class GA Standards).

The cVOC PCE and its breakdown products trichloroethene (TCE), cis-1,2-DCE, and vinyl chloride were detected in one or more groundwater samples in exceedance of their respective AWQS. PCE was detected in ten groundwater samples exceeding the AWQS of 5 parts-per-billion (ppb) [max. 320 ppb]; TCE was detected in three groundwater samples exceeding the AWQS of 5 ppb [max. 15 ppb]; cis-1,2-DCE was detected in four groundwater samples exceeding the AWQS of 5 ppb [max. 39 ppb]; and, vinyl chloride was detected in one groundwater sample exceeding the AWQS of 2 ppb [concentration of 2.2 ppb]. In general, the highest concentrations of cVOCs in groundwater were detected in the eastern portion of the Site.

One petroleum-related VOC, 1,2,4,5-tetramethylbenzene, was detected in exceedance of its AWQS of 5 ppb in one groundwater sample collected from the northwestern portion of the Site. 1,2,4,5-tetramethylbenzene was detected at a concentration of 15 ppb in temporary well TW-6.

A variety of SVOCs, specifically PAHs, were detected in nominal exceedance of their respective Class GA Standards in groundwater samples across the Site, including benzo(a)anthracene [max. 0.34 ppb], benzo(b)fluoranthene [max. 0.38 ppb], benzo(k)fluoranthene [max. 0.14 ppb], chrysene [max. 0.31 ppb], and indeno(1,2,3-cd)pyrene [max. 0.19 ppb]. All of the aforementioned analytes have an AWQS of 0.002 ppb. No other SVOCs were detected in exceedance of Class GA Standards in any groundwater samples.

A variety of metals were detected in exceedance of Class GA Standards in unfiltered groundwater samples across the Site. Arsenic [concentration of 31.37 ppb with an AWQS of 25 ppb], iron [max. 4,380 ppb with an AWQS of 300 ppb], lead [concentration of 81.82 ppb with an AWQS of 25 ppb], manganese [max. 926.9 ppb with an AWQS of 300 ppb], selenium [concentration of 10.1 ppb with an AWQS of 10 ppb], and sodium [max. 70,900 ppb with an AWQS of 20,000 ppb] were each detected in exceedance of the AWQS in all one or more groundwater samples at the Site. Of these, the naturally-occurring earth metals manganese and sodium were detected in exceedance of the AWQS in filtered groundwater samples across the Site. Filtered manganese was detected at a max. concentration of 1,235 ppb with an AWQS of 300 ppb and sodium was detected at a max. concentration of 89,600 ppb with an AWQS of 20,000 ppb. No other metals were detected in exceedance of the AWQS in any unfiltered or filtered groundwater samples.

Pesticides and PCBs were not detected above the AWQS in any groundwater samples.

Sub-Slab Soil Vapor and Indoor Air

A variety of cVOCs were detected in sub-slab soil vapor across the Site, including PCE [max. 16,100 micrograms per cubic meter (ug/m3)], TCE [max. 537 ug/m3], cis-1,2-DCE [max. 377 ug/m3], methylene chloride [concentration of 23 ug/m3], and chloroform [max. 752 ug/m3]. In general, the highest concentrations of cVOCs were detected in the soil vapor sample collected from the southern portion of the Site basement.

A variety of cVOCs were detected in the indoor air sample collected from the Site basement, including PCE [concentration of 1,270 ug/m3], TCE [concentration of 4.82 ug/m3], cis-1,2-DCE [concentration of 0.349 ug/m3], methylene chloride [concentration of 21.4 ug/m3], and carbon tetrachloride [concentration of 0.459 ug/m3]. Of these, PCE and TCE were detected in the indoor air sample in exceedance of the NYSDOH Air Guideline Values (AGVs) of 30 ug/m3 and 2 ug/m3, respectively.

Co-located sub-slab soil vapor and indoor air samples were not collected as part of the May 2023 Due Diligence investigation. However, based on a comparison of cVOC concentrations in sub-slab soil vapor and indoor air to the applicable NYSDOH Decision Matrices (Matrix B for PCE and methylene chloride, and Matrix A for TCE, cis-1,2-DCE, and carbon tetrachloride), mitigation would be required at all five sub-slab soil vapor sample locations and the indoor air sample location for PCE; mitigation would be

required at two sub-slab soil vapor sample locations and the indoor air sample location for TCE; mitigation would be required at one sub-slab soil vapor sample location for cis-1,2-DCE; and, mitigation would be required at the indoor air sample location for methylene chloride regardless of the potential co-located sub-slab soil vapor or co-located indoor air concentrations at these locations.

A variety of petroleum-related VOCs were detected at low concentrations in sub-slab soil vapor and indoor air across the Site, including benzene [concentration of 0.68 ug/m3 in indoor air], toluene [max. 32.3 ug/m3 in sub-slab soil vapor and concentration of 8.55 ug/m3 in indoor air], ethylbenzene [concentration of 1.55 ug/m3 in indoor air], p/m-xylene [concentration of 22.5 ug/m3 in sub-slab soil vapor and 5.34 ug/m3 in indoor air], o-xylene [concentration of 1.52 ug/m3 in indoor air], 1,2,4-trimethylbenzene [concentration of 1.62 ug/m3 in indoor air], and 4-methyl-2-pentanone [concentration of 12.5 ug/m3 in indoor air]. None of these compounds require mitigation based on NYSDOH Decision Matrix D.

3.1 Human Exposure Pathways

The media of concern at the Site include potentially-impacted soil, groundwater and soil vapor. Potential exposure pathways include dermal contact, incidental ingestion and inhalation of vapors. The risk of dermal contact and incidental ingestion will be minimized through general safe work practices, a personal hygiene program and the use of PPE. The risk of inhalation will be minimized through the use of an air monitoring program for VOCs and particulates.

3.2 Chemical Hazards

Based on historic uses, the following contaminants of concern may be present at the Site:

VOCs
- 1,2,4,5-tetramethylbenzene
- Chlorinated Solvents
  - PCE
  - TCE
  - Cis-1,2-DCE
  - Vinyl Chloride

PAHs
- benzo(a)pyrene
- benzo(a)anthracene
- benzo(b)fluoranthene
- benzo(k)fluoranthene
- chrysene
- indeno(1,2,3-cd)pyrene

Metals
- arsenic
- iron
- lead
- manganese
- mercury
- selenium
- sodium

Material Safety Data Sheets (MSDSs) for each contaminant of concern are included in Appendix C. All personnel are required to review the MSDSs included in this HASP.

3.3 Physical Hazards

The physical hazards associated with the field activities likely present a greater risk of injury than the chemical constituents at the Site. Activities within the scope of this project shall comply with New York State and Federal OSHA construction safety standards.

Head Trauma
To minimize the potential for head injuries, field personnel will be required to wear National Institutes of Occupational Safety and Health (NIOSH)-approved hard hats during field activities. Hats must be worn properly and not altered in any way that would decrease the degree of protection provided.

Foot Trauma
To avoid foot injuries, field personnel will be required to wear steel-toed safety shoes while field activities are being performed. To afford maximum protection, all safety shoes must meet American National Standards Institute (ANSI) standards.

Eye Trauma
Field personnel will be required to wear eye protection (safety glasses with side shields) while field activities are being performed to prevent eye injuries caused by contact with chemical or physical agents.

Noise Exposure
Field personnel will be required to wear hearing protection (ear plugs or muffs) in high noise areas (noise from heavy equipment) while field activities are being performed.

Buried Utilities and Overhead Power Lines
Boring locations will be cleared by an underground utility locator service. In addition, prior to intrusive activities, the drilling subcontractor will contact the One Call Center to arrange for a utility mark-out, in accordance with New York State requirements. Protection from overhead power lines will be accomplished by maintaining safe distances of at least 15 feet at all times.

Thermal Stress
The effects of ambient temperature can cause physical discomfort, personal injury, and increase the probability of accidents. In addition, heat stress due to lack of body ventilation caused by protective clothing is an important consideration. Heat-related illnesses commonly consist of heat stroke and heat exhaustion.

The symptoms of heat stroke include: sudden onset; change in behavior; confusion; dry, hot and flushed skin; dilated pupils; fast pulse rate; body temperature reaching 105° or more; and/or, deep breathing later followed by shallow breathing.

The symptoms of heat exhaustion include: weak pulse; general weakness and fatigue; rapid shallow breathing; cold, pale and clammy skin; nausea or headache; profuse perspiration; unconsciousness; and/or, appearance of having fainted.

Heat-stress monitoring will be conducted if air temperatures exceed 70 degrees Fahrenheit. The initial work period will be set at 2 hours. Each worker will check his/her pulse at the wrist for 30 seconds early in each rest period. If the pulse rate exceeds 110 beats per minute, the next work period will be shortened by one-third.

One or more of the following precautions will reduce the risk of heat stress on the Site:

- Provide plenty of liquids to replace lost body fluids; water, electrolytic drinks, or both will be made available to minimize the risk of dehydration and heat stress
- Establish a work schedule that will provide appropriate rest periods
- Establish work regimens consistent with the American Conference of Governmental Industrial Hygienists (ACGIH) guidelines
- Provide adequate employee training on the causes of heat stress and preventive measures

In the highly unlikely event of extreme low temperatures, reasonable precautions will be made to avoid risks associated with low temperature exposure.

Traffic

Field activities will occur near public roadways. As a result, vehicular traffic will be a potential hazard during these activities and control of these areas will be established using barricades or traffic cones. Additional staff will be assigned, as warranted, for the sole purpose of coordinating traffic. Personnel will also be required to wear high-visibility traffic vests while working in the vicinity of the public roadways and local requirements for lane closure will be observed as needed. All work in public rights-of-way will be coordinated with local authorities and will adhere to their requirements for working in traffic zones.

Hazardous Weather Conditions

All Site workers will be made aware of hazardous weather conditions, specifically including extreme heat, and will be requested to take the precautions described herein to avoid adverse health risks. All workers are encouraged to take reasonable, common sense precautions to avoid potential injury associated with possible rain or high wind, sleet, snow or freezing.

Slip, Trip and Fall

Areas at the Site may be slippery from mud or water. Care should be taken by all Site workers to avoid slip, trip, and fall hazards. Workers shall not enter areas that do not have adequate lighting. Additional portable lighting will be provided at the discretion of the HSO.

Biological Hazards

Drugs and alcohol are prohibited from the Site. Any on-site personnel violating this requirement will be immediately expelled from the site.

Any worker or oversight personnel with a medical condition that may require attention must inform the HSO of such condition. The HSO will describe appropriate measures to be taken if the individual should become symptomatic.

Due to the Site location in an urban area, it is highly unlikely that poisonous snakes, spiders, plants and insects will be encountered. However, other animals (dogs, cats, etc.) may be encountered and care should be taken to avoid contact.

4.0 COVID-19 HEALTH AND SAFETY

The following requirements apply to all employees working on project sites for the duration of the COVID-19 pandemic. These guidelines are based on information provided by the Centers for Disease Control, the Occupational Safety and Health Administration and the New York State "New York Forward" Covid-19 management plans. Information regarding the health status of employees will be kept confidential, with the exception of required notifications to health authorities. The following are guidelines. **As with any potential workplace hazard, employees should report any concerns related to potential Covid-19 exposure to the Project Manager.**

Communication/Reporting:

Employees should not report to work and should notify the Project Manager immediately in the event of the following:

- You are exhibiting flu-like symptoms (fever, body aches, cough, difficulty breathing). Contact your health care provider and follow their instructions.
- You do not exhibit symptoms but have a sick (i.e., diagnosed with Covid-19 or exhibiting flu-like symptoms) family member at home. Remember that the virus can be spread by asymptomatic individuals.
- You have been exposed to someone who has been diagnosed with Covid-19.

In each of the above cases, inform your Project Manager regarding others who may have been exposed in order to facilitate any necessary notification or contact tracing efforts.

Hygiene

- Wash hands frequently with soap and water for at least 20 seconds or use hand sanitizer with at least 60% alcohol if soap and water are not available. Key times for employees to clean their hands include:
    - Before and after work shifts
    - Before and after work breaks
    - After blowing the nose, coughing, or sneezing
    - After using the restroom
    - Before eating or preparing food
    - After putting on, touching, or removing face coverings
- Avoid touching the eyes, nose, and mouth with unwashed hands.
- Practice good respiratory etiquette, including covering coughs and sneezes.
- To the extent possible, avoid sharing tools and sampling equipment. Shared tools and equipment should be regularly disinfected.

Physical Distancing

- Minimize contact with others, maintaining a distance of at least six feet to the extent possible
- Employees should wear masks over their nose and mouth to prevent spread of the virus; this is especially important when a minimum 6-foot distance cannot be maintained.
- Maintain the 6-foot distance to the extent possible during sampling efforts and pickup and delivery of sampling equipment and containers.

- Keep job site meetings to a minimum and of short duration; limit the number of people involved and maintain social distance.

5.0 AIR MONITORING

The NYSDOH Generic Community Air Monitoring Plan (CAMP), included as Appendix 1A of DER-10, will be implemented during all ground-intrusive sampling activities.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring should be performed using equipment appropriate for the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shut down.
4. All 15-minute readings must be recorded and be available for State (NYSDEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m3 above the upwind level and provided that no visible dust is migrating from the work area.
2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls

are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (NYSDEC and NYSDOH) personnel to review.

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative- pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors.

Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work with Occupied Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under “Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures” except that in this instance “nearby/occupied structures” would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

6.0 PERSONAL PROTECTIVE EQUIPMENT

The personal protection equipment required for various kinds of site investigation tasks is based on 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, "General Description and Discussion of the Levels of Protection and Protective Gear" and the Centers for CDC COVID-19 "Guidelines on How to Protect Yourselves and Others".

Field personnel and other site personnel will wear Modified Level D-1 personal protective equipment. During activities such as drilling, well installation, or sampling, where there is a chance of contact with contaminated materials, Modified Level D-2 equipment will be worn. The protection will be upgraded to Level C if warranted by the results of the air monitoring. A six-foot minimum distance between individuals (both workers and non-workers) will be maintained at all times. A description of the personnel protective equipment for Levels D and C is provided below.

Modified Level D-1
Respiratory Protection: Cloth face covering
Protective Clothing: Hard hat, steel or composite-toed shoes, long pants, nitrile gloves

Modified Level D-2
Respiratory Protection: Cloth face covering
Protective Clothing: Hard hat, steel or composite-toed shoes, coveralls/tyvek, nitrile gloves

Level C
Respiratory Protection: Air purifying respirator with organic vapor cartridges and filters.
Protective Clothing: Same as Modified Level D-2

7.0 EXPOSURE MONITORING

7.1 Hazardous Materials

Selective monitoring of workers in the exclusion area may be conducted, as determined by the HSO, if sources of hazardous materials are identified. Personal monitoring may be conducted in the breathing zone at the discretion of the Project Manager or HSO. All monitoring will comply with the CDCs Guidance on Social Distancing.

7.2 COVID-19

For any employee that may have come into contact with a person who has COVID-19, a 5-day quarantine will be imposed for that individual and any employee that individual was in contact with.

8.0 SITE ACCESS

Access to the Site during the investigation will be controlled by the Project Manager or HSO. Unauthorized personnel will not be allowed access to the sampling areas.

9.0 WORK AREAS

During any activities involving drilling or other subsurface disturbance, the work area must be divided into various zones to prevent the spread of contamination, clarify the type of protective equipment needed, and provide an area for decontamination.

The Exclusion Zone is defined as the area where potentially contaminated materials are generated as the result of drilling, sampling, or similar activities. The Contamination Reduction Zone (CRZ) is the area where decontamination procedures take place and is located adjacent to the Exclusion Zone. The Support Zone is the area where support facilities such as vehicles, a field phone, fire extinguisher and/or first aid supplies are located. The emergency staging area (part of the Support Zone) is the area where all Site workers will assemble in the event of an emergency. These zones shall be designated daily, depending on that day's activities. All field personnel will be informed of the location of these zones before work begins.

Control measures such as "Caution" tape and traffic cones will be placed around the perimeter of the work area when work is being done in the areas of concern (i.e., areas with exposed soil) to prevent unnecessary access.

10.0 DECONTAMINATION PROCEDURES

Personnel Decontamination
Personnel decontamination (decon), if deemed necessary by the HSO, will take place in the designated decontamination area delineated for each sampling location. Personnel decontamination will consist of the following steps:

- Soap and potable water wash and potable water rinse of gloves;
- Tyvek removal;
- Glove removal;
- Disposable clothing removal; and
- Field wash of hands and face.

Equipment Decontamination
Sampling equipment, such as split-spoons and bailers, will be decontaminated in accordance with U.S. Environmental Protection Agency methodologies, as described in the work plan.

Disposal of Materials
Purged well water, water used to decontaminate any equipment and well cuttings will be containerized and disposed off-site in accordance with federal, state and local regulations.

11.0 GENERAL SAFE WORK PRACTICES

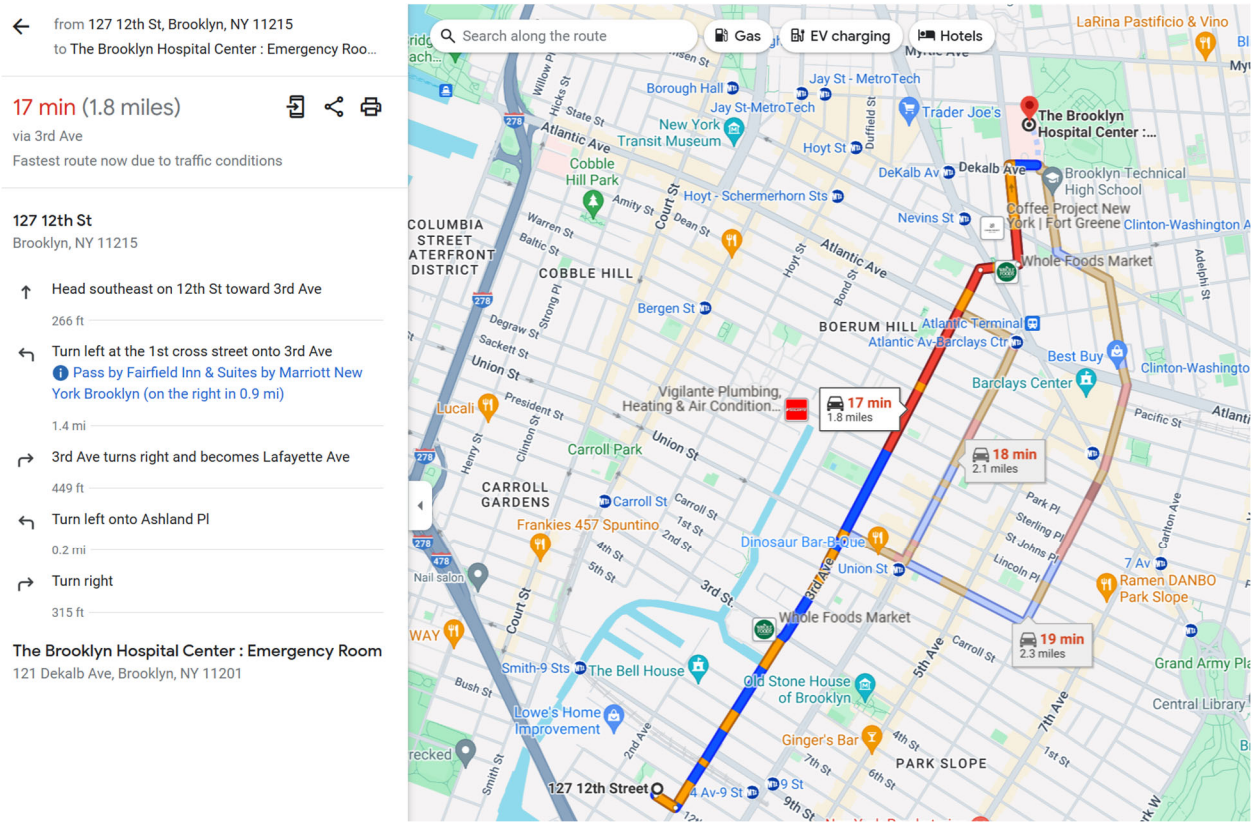
To protect the health and safety of the field personnel, all field personnel will adhere to the guidelines listed below during activities involving subsurface disturbance.

- Eating, drinking, chewing gum or tobacco, and smoking are prohibited, except in designated areas on the site. These areas will be designated by the HSO.
- Workers must wash their hands and face thoroughly on leaving the work area and before eating, drinking, or any other such activity. The workers should shower as soon as possible after leaving the site.
- Removal of potential contamination from PPE and equipment by blowing, shaking or any means that may disperse materials into the air is prohibited.
- Contact with contaminated or suspected surfaces should be avoided.
- The buddy system should always be used; each buddy should watch for signs of fatigue, exposure, and heat stress.
- Personnel will be cautioned to inform each other of symptoms of chemical exposure such as headache, dizziness, nausea, and irritation of the respiratory tract and heat stress.
- No excessive facial hair that interferes with a satisfactory fit of the face-piece of the respirator to the face will be allowed on personnel required to wear respiratory protective equipment.
- On-site personnel will be thoroughly briefed about the anticipated hazards, equipment requirements, safety practices, emergency procedures, and communications methods.

12.0 EMERGENCY PROCEDURES

The field crew will be equipped with emergency equipment, such as a first aid kit and disposable eye washes. In the case of a medical emergency, the HSO will determine the nature of the emergency and will have someone call for an ambulance, if needed. If the nature of the injury is not serious—i.e., the person can be moved without expert emergency medical personnel—onsite personnel should drive injured person to a hospital. **The nearest emergency room is located at the Brooklyn Hospital Center – 121 Dekalb Avenue, Brooklyn, NY 11201. The phone number is (718) 250-8000.** The route to the hospital is shown and detailed on the next page.

12.1 Route to Hospital



Driving directions to **The Brooklyn Hospital Center: Emergency Room** from **127 12th Street.**

12.2 Emergency Contacts

There will be an on-site field phone. Emergency and contact telephone numbers are listed below:

Table 1 – Emergency Contacts	
Ambulance	911
Emergency Room	(718) 250-8000
NYSDEC Spill Hotline	(800) 457-7362
NYSDEC	(518) 402-8013
Project Manager, Alana Carroll	(917) 428-2094
On-site Personnel, Ashley Platt	(908) 892-1354

13.0 TRAINING

All personnel performing the field activities described in this HASP will have received the initial safety training required by 29 CFR, 1910.120. Current refresher training status also will be required for all personnel engaged in field activities.

All those who enter the work area while intrusive activities are being performed must recognize and understand the potential hazards to health and safety. All field personnel must attend a training program covering the following areas:

- potential hazards that may be encountered;
- the knowledge and skills necessary for them to perform the work with minimal risk to health and safety;
- the purpose and limitations of safety equipment; and
- protocols to enable field personnel to safely avoid or escape from emergencies.

Each member of the field crew will be instructed in the above objectives before he/she goes onto the site. The HSO will be responsible for conducting the training program.

14.0 MEDICAL SURVEILLANCE

All Matthew M. Carroll, PE and subcontractor personnel performing field work involving drilling or other subsurface disturbance at the site are required to have passed a complete medical surveillance examination in accordance with 29 CFR 1910.120 (f). The medical examination for employees will, at a minimum, be provided annually and upon termination of hazardous waste site work.

Appendix A

Acknowledgement of HASP

ACKNOWLEDGMENT OF HASP

Below is an affidavit that must be signed by all employees who enter the site. A copy of the HASP must be on-site at all times and will be kept by the HSO.

AFFIDAVIT

I have read the Construction Health and Safety Plan (HASP) for the 127 12th Street site in Brooklyn, NY. I agree to conduct all on-site work in accordance with the requirements set forth in this HASP and understand that failure to comply with this HASP could lead to my removal from the site.

Signature: _____ Date: _____
Signature: _____ Date: _____
Signature: _____ Date: _____
Signature: _____ Date: _____
Signature: _____ Date: _____

Appendix B

Injury Reporting Form (OSHA Form 300)

OSHA's Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name _____

City _____ State _____

Identify the person			Describe the case			Classify the case (CHECK ONLY ONE box for each case based on the most serious outcome for that case:)				Enter the number of days the injured or ill worker was:		Check the "Injury" column or choose one type of illness:					
								Remained at Work				(M)					
(A) Case no.	(B) Employee's name	(C) Job title (*e.g., Welder*)	(D) Date of injury or onset of illness	(E) Where the event occurred (*e.g., Loading dock north end*)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (*e.g., Second degree burns on right forearm from acetylene torch*)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other record-able cases (J)	Away from work (K)	On job transfer or restriction (L)	Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
			___/ month/day			☐	☐	☐	☐	___ days	___ days	☐	☐	☐	☐	☐	☐
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			___/ month/day			☐	☐	☐	☐	___ days	___ days	☐	☐	☐	☐	☐	☐
Page totals ➤						___	___	___	___	___	___	___	___	___	___	___	___

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Injury (1) | Skin disorder (2) | Respiratory condition (3) | Poisoning (4) | Hearing loss (5) | All other illnesses (6)

Appendix C

Material Safety Data Sheets (MSDS)

SAFETY DATA SHEET

Creation Date 23-Mar-2012 **Revision Date** 14-Feb-2020 **Revision Number** 2

1. Identification

Product Name **1,2,4,5-Tetramethylbenzene**

Cat No. : **L04493**

CAS-No 95-93-2
Synonyms Durene

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com
www.alfa.com

Emergency Telephone Number
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.
After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
Flammable solid

Precautionary Statements
Prevention
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Wear protective gloves/protective clothing/eye protection/face protection
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
1,2,4,5-Tetramethylbenzene	95-93-2	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.

Inhalation Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms and effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. Chemical foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire

Flash Point 73 °C / 163.4 °F

Method - No information available

Autoignition Temperature
Explosion Limits
Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Flammable. Containers may explode when heated. Do not allow run-off from fire-fighting to enter drains or water courses. Combustible material.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	2	0	N/A

6. Accidental release measures

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Avoid contact with skin and clothing. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition.

Storage Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep away from heat, sparks and flame. Flammables area. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	78 - 82 °C / 172.4 - 179.6 °F
Boiling Point/Range	196 - 197 °C / 384.8 - 386.6 °F
Flash Point	73 °C / 163.4 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	160 mmHg @ 140 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C10 H14
Molecular Weight	134.22

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2,4,5-Tetramethylbenzene	LD50 = 6989 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
1,2,4,5-Tetramethylbenzene	95-93-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1,2,4,5-Tetramethylbenzene	Not listed	LC50 = 30 mg/L 48h	Not listed	EC50 = 0.47 mg/L 48h

Persistence and Degradability May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

Component	log Pow
1,2,4,5-Tetramethylbenzene	4.17

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s.
Hazard Class 4.1
Packing Group II

TDG

UN-No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s.
Hazard Class 4.1
Packing Group II

IATA

UN-No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s.
Hazard Class 4.1

Packing Group II

IMDG/IMO

UN-No UN1325
Proper Shipping Name Flammable solid, organic, n.o.s.
Hazard Class 4.1
Packing Group II

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
1,2,4,5-Tetramethylbenzene	95-93-2	X	ACTIVE	-

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
1,2,4,5-Tetramethylbenzene	95-93-2	X	-	202-465-7	X	X	X	X	KE-33556

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations Not applicable

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Moderate risk, Grade 2

16. Other information

Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date	23-Mar-2012
Revision Date	14-Feb-2020
Print Date	14-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 95-93-2/2.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Revision Date 20-Feb-2020 **Revision Number** 2

1. Identification

Product Name **Arsenic powder**

Cat No. : **10101**

CAS-No 7440-38-2
Synonyms No information available

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com
www.alfa.com

Emergency Telephone Number
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.
After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Carcinogenicity	Category 1A

Label Elements

Signal Word
Danger

Hazard Statements
May cause cancer
Toxic if swallowed or if inhaled

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Arsenic	7440-38-2	<=100

4. First-aid measures

General Advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation
Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion
Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	approved class D extinguishers. Do not use water or foam.
Unsuitable Extinguishing Media	No information available
Flash Point	No information available
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
arsenic oxides.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	-

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.
Methods for Containment and Clean Up	Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Arsenic	TWA: 0.01 mg/m³	(Vacated) TWA: 0.5 mg/m³	IDLH: 5 mg/m³ Ceiling: 0.002 mg/m³	TWA: 0.01 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	No information available
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	817 °C / 1502.6 °F
Boiling Point/Range	614 °C / 1137.2 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.01 hPa @ 267 °C
Vapor Density	Not applicable
Specific Gravity	5.778 g/cm3
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	As
Molecular Weight	74.92

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Oxidizing agent

Hazardous Decomposition Products arsenic oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Arsenic	LD50 = 15 mg/kg (Rat) LD50 = 763 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Arsenic	7440-38-2	Group 1	Known	A1	X	A1

IARC (International Agency for Research on Cancer)

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN1558
Proper Shipping Name	ARSENIC
Hazard Class	6.1
Packing Group	II

TDG

UN-No	UN1558
Proper Shipping Name	ARSENIC
Hazard Class	6.1
Packing Group	II

IATA

UN-No	UN1558
Proper Shipping Name	ARSENIC
Hazard Class	6.1
Packing Group	II

IMDG/IMO

UN-No	UN1558
Proper Shipping Name	ARSENIC
Hazard Class	6.1
Packing Group	II

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Arsenic	7440-38-2	X	ACTIVE	-

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Arsenic	7440-38-2	X	-	231-148-6	X	X	X	X	KE-01933

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Arsenic	7440-38-2	<=100	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Arsenic	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Arsenic	X		-

OSHA - Occupational Safety and Health Administration Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Arsenic	10 µg/m³ TWA 5 µg/m³ Action Level	-

CERCLA Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Arsenic	1 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Arsenic	7440-38-2	Carcinogen	0.06 µg/day 10 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Arsenic	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date	20-Feb-2020
Print Date	20-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 7440-38-2/1.

Disclaimer

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End of SDS

ATSDR
AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY

1,2-DICHLOROETHENE
CAS # 540-59-0, 156-59-2, and 156-60-5

This fact sheet answers the most frequently asked health questions (FAQs) about 1,2-dichloroethene. For more information, call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to 1,2-dichloroethene occurs mainly in workplaces where it is made or used. Breathing high levels of 1,2-dichloroethene can make you feel nauseous, drowsy, and tired. *cis*-1,2-Dichloroethene has been found in at least 146 of the 1,430 National Priorities List sites identified by the Environmental Protection Agency (EPA). *trans*-1,2-Dichloroethene was found in at least 563 NPL sites. 1,2-Dichloroethene was found at 336 sites, but the isomer (*cis*- or *trans*-) was not specified.

What is 1,2-dichloroethene?

(Pronounced 1,2-dī-klôr′ ō-ĕth′ēn)

1,2-Dichloroethene, also called 1,2-dichloroethylene, is a highly flammable, colorless liquid with a sharp, harsh odor. It is used to produce solvents and in chemical mixtures. You can smell very small amounts of 1,2-dichloroethene in air (about 17 parts of 1,2-dichloroethene per million parts of air [17 ppm]).

There are two forms of 1,2-dichloroethene; one is called *cis*-1,2-dichloroethene and the other is called *trans*-1,2-dichloroethene. Sometimes both forms are present as a mixture.

What happens to 1,2-dichloroethene when it enters the environment?

- 1,2-Dichloroethene evaporates rapidly into air.
- In the air, it takes about 5-12 days for half of it to break down.
- Most 1,2-dichloroethene in the soil surface or bodies of water will evaporate into air.
- 1,2-Dichloroethene can travel through soil or dissolve in water in the soil. It is possible that it can contaminate groundwater.
- In groundwater, it takes about 13-48 weeks to break down.
- There is a slight chance that 1,2-dichloroethene will break down into vinyl chloride, a different chemical which is believed to be more toxic than 1,2-dichloroethene.

How might I be exposed to 1,2-dichloroethene?

- Breathing 1,2-dichloroethene that has leaked from hazardous waste sites and landfills.
- Drinking contaminated tap water or breathing vapors from contaminated water while cooking, bathing, or washing dishes.
- Breathing 1,2-dichloroethene, touching it, or touching contaminated materials in the workplace.

How can 1,2-dichloroethene affect my health?

Breathing high levels of 1,2-dichloroethene can make you feel nauseous, drowsy, and tired; breathing very high levels can kill you.

When animals breathed high levels of *trans*-1,2-dichloroethene for short or longer periods of time, their livers and lungs were damaged and the effects were more severe with longer exposure times. Animals that breathed very high

levels of *trans*-1,2-dichloroethene had damaged hearts.

Animals that ingested extremely high doses of *cis*- or *trans*-1,2-dichloroethene died.

Lower doses of *cis*-1,2-dichloroethene caused effects on the blood, such as decreased numbers of red blood cells, and also effects on the liver.

The long-term (365 days or longer) human health effects after exposure to low concentrations of 1,2-dichloroethene aren't known. One animal study suggested that an exposed fetus may not grow as quickly as one that hasn't been exposed.

Exposure to 1,2-dichloroethene hasn't been shown to affect fertility in people or animals.

How likely is 1,2-dichloroethene to cause cancer?

The EPA has determined that *cis*-1,2-dichloroethene is not classifiable as to its human carcinogenicity.

No EPA cancer classification is available for *trans*-1,2-dichloroethene.

Is there a medical test to show whether I've been exposed to 1,2-dichloroethene?

Tests are available to measure concentrations of the breakdown products of 1,2-dichloroethene in blood, urine, and tissues. However, these tests aren't used routinely to determine whether a person has been exposed to this compound. This is because after you are exposed to 1,2-dichloroethene, the breakdown products in your body that are detected with these tests may be the same as those that come from exposure to other chemicals. These tests aren't available in most doctors' offices, but can be done at special laboratories that have the right equipment.

Has the federal government made recommendations to protect human health?

The EPA has set the maximum allowable level of *cis*-1,2-dichloroethene in drinking water at 0.07 milligrams per liter of water (0.07 mg/L) and *trans*-1,2-dichloroethene at 0.1 mg/L.

The EPA requires that any spills or accidental release of 1,000 pounds or more of 1,2-dichloroethene must be reported to the EPA.

The Occupational Health Safety and Health Administration (OSHA) has set the maximum allowable amount of 1,2-dichloroethene in workroom air during an 8-hour workday in a 40-hour workweek at 200 parts of 1,2-dichloroethene per million parts of air (200 ppm).

Glossary

Carcinogenicity: Ability of a substance to cause cancer.

CAS: Chemical Abstracts Service.

Fertility: Ability to reproduce.

Ingest: To eat or drink something.

Milligram (mg): One thousandth of a gram.

ppm: Parts per million.

Solvent: A chemical that can dissolve other substances.

References

This ToxFAQs information is taken from the 1996 Toxicological Profile for 1,2-Dichloroethene produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-888-422-8737, FAX: 770-488-4178. ToxFAQs Internet address via WWW is http://www.atsdr.cdc.gov/toxfaq.html ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

SAFETY DATA SHEET

Creation Date 02-Nov-2009 **Revision Date** 13-Oct-2023 **Revision Number** 8

1. Identification

Product Name **Iron, reference standard solution 1000 ppm**

Cat No. : **SI124-100; SI124-500**

Synonyms No information available

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Thermo Fisher Scientific
Technology Drive , PA 15219 USA
Telephone: 412-770-2326
Fax: 412-770-2224

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals	Category 1
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
May be corrosive to metals
Causes skin irritation
Causes serious eye damage

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep only in original container
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
Spills
Absorb spillage to prevent material damage
Storage
Store in corrosive resistant polypropylene container with a resistant inliner
Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	> 94
Nitric acid …% [C ≤ 70 %]	7697-37-2	< 5
Iron(III) nitrate nonahydrate	7782-61-8	< 1

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects Causes eye burns. Causes severe eye damage.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point	Not applicable
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous Combustion Products
Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

6. Accidental release measures

Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation.
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store in metal containers. Corrosives area. Keep in properly labeled containers. Incompatible Materials. Strong oxidizing agents. Strong bases. Metals.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Nitric acid …% [C ≤ 70 %]	TWA: 2 ppm STEL: 4 ppm	(Vacated) TWA: 2 ppm (Vacated) TWA: 5 mg/m³ (Vacated) STEL: 4 ppm (Vacated) STEL: 10 mg/m³ TWA: 2 ppm TWA: 5 mg/m³	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³	TWA: 2 ppm STEL: 4 ppm
Iron(III) nitrate nonahydrate	TWA: 1 mg/m³	(Vacated) TWA: 1 mg/m³	TWA: 1 mg/m³	TWA: 1 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

Hygiene Measures Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Odorless
Odor Threshold	No information available
pH	< 1
Melting Point/Range	> 0 °C / 32 °F
Boiling Point/Range	< 100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	14 mmHg
Vapor Density	No information available
Specific Gravity	~ 1.0
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Exposure to air or moisture over prolonged periods.

Incompatible Materials Strong oxidizing agents, Strong bases, Metals

Hazardous Decomposition Products Nitrogen oxides (NOx), Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Nitric acid …% [C ≤ 70 %]	Not listed	Not listed	LC50 = 2500 ppm. (Rat) 1h
Iron(III) nitrate nonahydrate	LD50 = 3250 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Severe eye irritant. Irritating to skin.

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Nitric acid …% [C ≤ 70 %]	7697-37-2	Not listed	Not listed	Not listed	Not listed	Not listed
Iron(III) nitrate nonahydrate	7782-61-8	Not listed	Not listed	Not listed	Not listed	Not listed

IARC (International Agency for Research on Cancer)

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. .

Persistence and Degradability Miscible with water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Nitric acid …% [C ≤ 70 %]	-2.3

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Technical Name (NITRIC ACID)
Hazard Class 8
Packing Group III

TDG

UN-No UN3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
Packing Group III

IATA

UN-No UN3264
Proper Shipping Name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.*
Hazard Class 8
Packing Group III

IMDG/IMO

UN-No UN3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.
Hazard Class 8
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Water	7732-18-5	X	ACTIVE	-
Nitric acid …% [C ≤ 70 %]	7697-37-2	X	ACTIVE	-
Iron(III) nitrate nonahydrate	7782-61-8	-	-	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Water	7732-18-5	X	-	231-791-2	X	X		X	X	KE-35400
Nitric acid …% [C ≤ 70 %]	7697-37-2	X	-	231-714-2	X	X	X	X	X	KE-25911
Iron(III) nitrate nonahydrate	7782-61-8	-	-	-	X	X		X	X	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Nitric acid …% [C ≤ 70 %]	7697-37-2	< 5	1.0
Iron(III) nitrate nonahydrate	7782-61-8	< 1	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Nitric acid …% [C ≤ 70 %]	X	1000 lb	-	-

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Nitric acid …% [C ≤ 70 %]	-	TQ: 500 lb

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Nitric acid …% [C ≤ 70 %]	1000 lb	1000 lb

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	X	-	-
Nitric acid …% [C ≤ 70 %]	X	X	X	X	X
Iron(III) nitrate nonahydrate	-	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product contains the following DHS chemicals:
Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Nitric acid …% [C ≤ 70 %]	Release STQs - 15000lb Theft STQs - 400lb

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Water	7732-18-5	-	-	-
Nitric acid …% [C ≤ 70 %]	7697-37-2	-	Use restricted. See item 75. (see link for restriction details)	-
Iron(III) nitrate nonahydrate	7782-61-8	-	-	-

REACH links
https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Nitric acid …% [C ≤ 70 %]	7697-37-2	Listed	Not applicable	Not applicable	Not applicable
Iron(III) nitrate nonahydrate	7782-61-8	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Nitric acid …% [C ≤ 70 %]	7697-37-2	Not applicable	Not applicable	Not applicable	Annex I - Y34
Iron(III) nitrate nonahydrate	7782-61-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 02-Nov-2009
Revision Date 13-Oct-2023
Print Date 13-Oct-2023
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Creation Date 03-Apr-2012 **Revision Date** 09-Feb-2024 **Revision Number** 7

1. Identification

Product Name **Lead**

Cat No. : **AC198110000; AC198110010; AC198110050**

CAS No 7439-92-1
Synonyms Lead metal

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No. **US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1A
Effects on or via lactation	
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Central nervous system (CNS), Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
May damage fertility. May damage the unborn child

May cause harm to breast-fed children
Causes damage to organs through prolonged or repeated exposure
May cause cancer

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Do not breathe dust/fume/gas/mist/vapors/spray
Avoid contact during pregnancy/while nursing
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Response
IF exposed or concerned: Get medical attention/advice
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Cancer and Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Lead powder	7439-92-1	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Lead. lead oxides.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong acids. Ammonium nitrate: fertilizers capable of self-sustaining decomposition. Peroxides.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Lead powder	TWA: 0.05 mg/m³	TWA: 50 µg/m³	IDLH: 100 mg/m³ TWA: 0.050 mg/m³	TWA: 0.05 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid Powder
Appearance	Grey
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	327.4 °C / 621.3 °F
Boiling Point/Range	1740 °C / 3164 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1.7 mmHg @ 1000 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Pb
Molecular Weight	207.19

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Exposure to air.
Incompatible Materials	Strong acids, Ammonium nitrate: fertilizers capable of self-sustaining decomposition, Peroxides
Hazardous Decomposition Products	Lead, lead oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information
Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Lead powder	7439-92-1	Group 2A	Reasonably Anticipated	A3	X	A3

IARC (International Agency for Research on Cancer)

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects Contains a known or suspected reproductive toxin.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Kidney Central nervous system (CNS) Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Lead powder	Not listed	LC50: = 1.32 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 1.17 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 0.44 mg/L, 96h semi-static (Cyprinus carpio)	Not listed	EC50: = 600 µg/L, 48h (water flea)

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Technical Name Lead powder
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lead powder	7439-92-1	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

Component	CAS No	**TSCA 12(b)** - Notices of Export
Lead powder	7439-92-1	Section 6

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lead powder	7439-92-1	X	-	231-100-4	X	X		X	X	KE-21887

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note that PBT chemicals are not eligible for the de minimis exemption. For these chemicals, supplier notification limits are provided.

> 0 % = no low concentration cut-off set, supplier notification limit applies.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Lead powder	7439-92-1	>95	> 0 %	RT = 100 lb

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Lead powder	-	-	X	X

Clean Air Act

OSHA - Occupational Safety and Health Administration — Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Lead powder	30 µg/m³ Action Level 50 µg/m³ TWA	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Lead powder	10 lb	-	10 lb 4.54 kg

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Lead powder	7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive	15 µg/day	Developmental Carcinogen

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lead powder	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Lead powder	7439-92-1	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 63. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - 231-100-4 - Toxic for reproduction (Article 57c)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

REACH links
https://echa.europa.eu/authorisation-list
https://echa.europa.eu/substances-restricted-under-reach
https://echa.europa.eu/candidate-list-table

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lead powder	7439-92-1	Listed	Not applicable	Not applicable	0.1% (Max. Conc.)

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Lead powder	7439-92-1	Not applicable	Not applicable	Not applicable	Annex I - Y31

16. Other information

Prepared By

Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 03-Apr-2012
Revision Date 09-Feb-2024
Print Date 09-Feb-2024
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Creation Date 24-Nov-2010 **Revision Date** 25-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Manganese, powder, -325 mesh**

Cat No. : **AC317440000; AC317440010; AC317442500**

CAS No 7439-96-5
Synonyms No information available

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word
Warning

Hazard Statements
Flammable solid
Causes serious eye irritation

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Wear protective gloves/protective clothing/eye protection/face protection
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Manganese	7439-96-5	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.

Inhalation Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms and effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Combustible material.

Hazardous Combustion Products
None known.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required.
Environmental Precautions	See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Handling	Avoid contact with skin and eyes. Do not breathe dust. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Keep under nitrogen. Incompatible Materials. Acids. Bases. Halogens.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Manganese	TWA: 0.02 mg/m³ TWA: 0.1 mg/m³	(Vacated) TWA: 1 mg/m³ Ceiling: 5 mg/m³ (Vacated) STEL: 3 mg/m³ (Vacated) Ceiling: 5 mg/m³	IDLH: 500 mg/m³ TWA: 1 mg/m³ STEL: 3 mg/m³	TWA: 0.2 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Dark brown
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1260 °C / 2300 °F
Boiling Point/Range	1900 °C / 3452 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Mn
Molecular Weight	54.94

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Moisture sensitive.

Conditions to Avoid Incompatible products. Exposure to moisture.

Incompatible Materials Acids, Bases, Halogens

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Manganese	LD50 = 9 g/kg (Rat)	Not listed	LC50 > 5.14 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Manganese	7439-96-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Manganese	Not listed	LC50: > 3.6 mg/L, 96h semi-static (Oncorhynchus mykiss)	Not listed	Not listed

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
UN-No UN3089
Proper Shipping Name Metal powder, flammable, n.o.s.
Technical Name Manganese
Hazard Class 4.1
Packing Group III

TDG
UN-No UN3089
Proper Shipping Name Metal powder, flammable, n.o.s.
Hazard Class 4.1
Packing Group III

IATA

UN-No	UN3089
Proper Shipping Name	Metal powder, flammable, n.o.s.
Hazard Class	4.1
Packing Group	III

IMDG/IMO

UN-No	UN3089
Proper Shipping Name	Metal powder, flammable, n.o.s.
Hazard Class	4.1
Packing Group	III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Manganese	7439-96-5	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Manganese	7439-96-5	X	-	231-105-1	X	X		X	X	KE-22999

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Manganese	7439-96-5	>95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island

Manganese	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Manganese	7439-96-5	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Manganese	7439-96-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 24-Nov-2010
Revision Date 25-Dec-2021
Print Date 25-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Creation Date 20-Aug-2014 **Revision Date** 09-Feb-2024 **Revision Number** 5

1. Identification

Product Name **Mercury (Certified ACS)**

Cat No. : **M141-1LB; M141-6LB**

Synonyms Colloidal mercury; Hydrargyrum; Metallic mercury

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Inhalation Toxicity - Vapors	Category 2
Reproductive Toxicity	Category 1B
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Central nervous system (CNS), Kidney.	

Label Elements

Signal Word
Danger

Hazard Statements
Fatal if inhaled
May damage the unborn child
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Mercury	7439-97-6	100

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. approved class D extinguishers.

Unsuitable Extinguishing Media Water may be ineffective

Flash Point Not applicable
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Very toxic. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Mercury oxide. Toxic fumes.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
4	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. No special precautions required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Should not be released into the environment. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Pick up and transfer to properly labelled containers.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep in a dry place. Keep away from acids. Incompatible Materials. Strong oxidizing agents. Ammonia. Metals. Halogens.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Mercury	TWA: 0.025 mg/m³ Skin	(Vacated) TWA: 0.05 mg/m³ Ceiling: 0.1 mg/m³ (Vacated) STEL: 0.03 mg/m³ Skin (Vacated) Ceiling: 0.1 mg/m³	IDLH: 10 mg/m³ TWA: 0.05 mg/m³ Ceiling: 0.1 mg/m³	TWA: 0.025 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No special protective equipment required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-38.87 °C / -38 °F
Boiling Point/Range	356.72 °C / 674.1 °F
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.002 mmHg @ 25 °C
Vapor Density	7.0
Specific Gravity	13.59 (H2O=1)
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Hg
Molecular Weight	200.59

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents, Ammonia, Metals, Halogens

Hazardous Decomposition Products Mercury oxide, Toxic fumes

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercury	Not listed	Not listed	LC50 < 27 mg/m³ (Rat) 2 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Mercury	7439-97-6	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects May cause harm to the unborn child.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure Central nervous system (CNS) Kidney

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Mercury	Not listed	0.9 mg/L LC50 96h	Not listed	Not listed

		0.18 mg/L LC50 96h 0.16 mg/L LC50 96h 0.5 mg/L LC50 96h		

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Mercury - 7439-97-6	U151	-

14. Transport information

DOT

UN-No	UN2809
Proper Shipping Name	Mercury
Hazard Class	8
Subsidiary Hazard Class	6.1
Packing Group	III

TDG

UN-No	UN2809
Proper Shipping Name	Mercury
Hazard Class	8
Subsidiary Hazard Class	6.1
Packing Group	III

IATA

UN-No	UN2809
Proper Shipping Name	Mercury
Hazard Class	8
Subsidiary Hazard Class	6.1
Packing Group	III

IMDG/IMO

UN-No	UN2809
Proper Shipping Name	Mercury
Hazard Class	8
Packing Group	III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Mercury	7439-97-6	X	ACTIVE	S;12C

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export

Component	CAS No	**TSCA 12(b)** - Notices of Export
Mercury	7439-97-6	Section 5

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Mercury	7439-97-6	X	-	231-106-7	X	X		X	X	KE-23117

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note that PBT chemicals are not eligible for the de minimis exemption. For these chemicals, supplier notification limits are provided.

> 0 % = no low concentration cut-off set, supplier notification limit applies.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Mercury	7439-97-6	100	> 0 %	RT = 10 lb

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Mercury	-	-	X	X

Clean Air Act

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Mercury	1 lb	-	1 lb 0.454 kg

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Mercury	7439-97-6	Developmental	-	Developmental

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Mercury	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Mercury	7439-97-6	-	Use restricted. See item 18[a]. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-

REACH links
https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Mercury	7439-97-6	Listed	Not applicable	Not applicable	0.1% (Max. Conc.)

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Mercury	7439-97-6	Not applicable	Not applicable	X	Annex I - Y29

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date	20-Aug-2014
Revision Date	09-Feb-2024
Print Date	09-Feb-2024
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

Polynuclear Aromatic Hydrocarbon Standard, Part Number 8500-6035

Section 1. Identification

Product identifier : Polynuclear Aromatic Hydrocarbon Standard, Part Number 8500-6035

Part no. : 8500-6035

Relevant identified uses of the substance or mixture and uses advised against

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
1 x 1 ml vial

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
H360	REPRODUCTIVE TOXICITY - Category 1
H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
H304	ASPIRATION HAZARD - Category 1
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

GHS label elements

Hazard pictograms :

Signal word : DANGER

Hazard statements : H225 - Highly flammable liquid and vapour.
H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H360 - May damage fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazard(s) identification

Prevention : P201 - Obtain special instructions before use.
P281 - Use personal protective equipment as required.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : P391 - Collect spillage.

Storage : P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

Additional warning phrases : Not applicable.

Other hazards which do not result in classification : None known.

Section 3. Composition and ingredient information

Substance/mixture : Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Acetonitrile	≥30 - ≤60	75-05-8
Acetone	≥10 - ≤30	67-64-1
Toluene	≥10 - ≤26	108-88-3
Fluoranthene	≤0.1	206-44-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Harmful in contact with skin. Causes skin irritation.

Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
reduced foetal weight
increase in foetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
cyanides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazchem code : •3WE

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Acetonitrile	**Safe Work Australia (Australia, 12/2019). Absorbed through skin.** STEL: 101 mg/m³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 67 mg/m³ 8 hours. TWA: 40 ppm 8 hours.
Acetone	**Safe Work Australia (Australia, 12/2019).** STEL: 2375 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1185 mg/m³ 8 hours. TWA: 500 ppm 8 hours.
Toluene	**Safe Work Australia (Australia, 12/2019). Absorbed through skin.** STEL: 574 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Section 8. Exposure controls and personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid. [Clear.]

Colour : Clear. / Colourless.

Odour : Ether-like.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : -45°C (-49°F)

Boiling point, initial boiling point, and boiling range : 81.6°C (178.9°F)

Flash point : Closed cup: -18 to 23°C (-0.4 to 73.4°F)

Evaporation rate : 5.79 (butyl acetate = 1)

Flammability : Not applicable.

Lower and upper explosion limit/flammability limit : Not available.

Section 9. Physical and chemical properties and safety characteristics

Vapour pressure : 11.6 kPa (87 mm Hg)

Relative vapour density : 1.42 [Air = 1]

Relative density : Not available.

Solubility : Soluble in the following materials: cold water and hot water.

Miscible with water : Yes.

Partition coefficient: n-octanol/water : -0.34

Auto-ignition temperature :

Ingredient name	°C	°F	Method
Acetone	465	869	
Toluene	480	896	

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials:
oxidising materials
Reactive or incompatible with the following materials: reducing materials, metals, acids and alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetonitrile	LC50 Inhalation Vapour	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rat	12000 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-
Fluoranthene	LD50 Dermal	Rabbit	3180 mg/kg	-
	LD50 Oral	Rat	2 g/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Acetone	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Conclusion/Summary

Skin : Repeated exposure may cause skin dryness or cracking.

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	-	-

Aspiration hazard

Name	Result
Polynuclear Aromatic Hydrocarbon Standard, Part Number 8500-6035	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Harmful in contact with skin. Causes skin irritation.

Section 11. Toxicological information

Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
reduced foetal weight
increase in foetal deaths
skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Polynuclear Aromatic Hydrocarbon Standard, Part Number 8500-6035	742.6	1871.1	N/A	18.7	N/A
Acetonitrile	500	1100	N/A	11	N/A
Acetone	5800	20000	N/A	76	N/A
Toluene	636	N/A	N/A	49	N/A
Fluoranthene	2000	3180	N/A	N/A	N/A

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 0.74 mg/l	Daphnia - Ceriodaphnia dubia	7 days
Fluoranthene	Acute EC50 0.103 ug/ml Marine water	Algae - Phaeodactylum tricornutum	72 hours
	Acute EC50 45 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 5.32 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 1.6 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.1 µg/l Marine water	Fish - Pleuronectes americanus	96 hours
	Chronic NOEC 0.05 ug/ml Marine water	Algae - Phaeodactylum tricornutum	72 hours
	Chronic NOEC 95 µg/l Marine water	Aquatic plants - Plantae	72 hours
	Chronic NOEC 1.4 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.4 µg/l Fresh water	Fish - Pimephales promelas	32 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Acetonitrile	OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
Acetone	OECD 301B Ready Biodegradability - CO2 Evolution Test	95 % - Readily - 28 days	-	-

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetonitrile	-	-	Readily
Acetone	-	-	Readily
Toluene	-	-	Readily
Fluoranthene	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Polynuclear Aromatic Hydrocarbon Standard, Part Number 8500-6035	-0.34	-	low
Acetonitrile	-0.34	3	low
Acetone	-0.23	3	low
Toluene	2.73	90	low
Fluoranthene	5.16	3630.78	high

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information

Remarks: De minimis quantities

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

6, 5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe	:	All components are listed or exempted.
Japan	:	**Japan inventory (CSCL)**: Not determined. **Japan inventory (ISHL)**: Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	All components are listed or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision	:	28/10/2021
Date of previous issue	:	01/09/2020
Version	:	9
Key to abbreviations	:	ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available

Section 16. Any other relevant information

SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
REPRODUCTIVE TOXICITY - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Expert judgment
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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Tetrachloroethylene - ToxFAQs™

CAS # 127-18-4

This fact sheet answers the most frequently asked health questions (FAQs) about tetrachloroethylene. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Tetrachloroethylene is a manufactured chemical used for dry cleaning and metal degreasing and in the aerospace industry. Exposure to very high concentrations of tetrachloroethylene can cause dizziness headaches, sleepiness, incoordination confusion, nausea, unconsciousness, and even death. Tetrachloroethylene has been found in at least 949 of the 1,854 National Priorities List sites identified by U.S. Environmental Protection Agency (EPA).

What is tetrachloroethylene?

Tetrachloroethylene is a nonflammable colorless liquid. Other names for tetrachloroethylene include perchloroethylene, PCE, perc, tetrachloroethene, and perchlor. Most people can smell tetrachloroethylene when it is present in the air at a level of 1 part in 1 million parts of air (1 ppm) or more.

Tetrachloroethylene is used as a dry cleaning agent and metal degreasing solvent. It is also used as a starting material (building block) for making other chemicals and is used in some consumer products.

What happens to tetrachloroethylene when it enters the environment?

- Tetrachloroethylene can be released into air, water, and soil at places where it is produced or used.
- Tetrachloroethylene breaks down very slowly in the air and so it can be transported long distances in the air. Half of the amount in the air will degrade in approximately 100 days.
- Tetrachloroethylene evaporates quickly from water into air. It is generally slow to break down in water.
- Tetrachloroethylene may evaporate quickly from shallow soils or may filter through the soil and into the groundwater below. It is generally slow to break down in soil.

How might I be exposed to tetrachloroethylene?

- When you bring clothes from the dry cleaners, they will release small amounts of tetrachloroethylene into the air.
- When you drink water containing tetrachloroethylene, you are exposed to it. You might also be exposed to tetrachloroethylene that is released into the air during showering and bathing.
- People residing near contaminated sites or dry cleaning locations may be exposed to higher levels than the general population.
- People working in the dry cleaning industries or using metal degreasing products may be exposed to elevated levels of tetrachloroethylene.

How can tetrachloroethylene affect my health?

Breathing high levels of tetrachloroethylene for a brief period may cause dizziness or drowsiness, headache, and incoordination; higher levels may cause unconsciousness and even death.

Exposure for longer periods to low levels of tetrachloroethylene may cause changes in mood, memory, attention, reaction time, and vision.

Studies in animals exposed to tetrachloroethylene have shown liver and kidney effects, and changes in brain chemistry, but we do not know what these findings mean for humans.

Tetrachloroethylene

CAS # 127-18-4

How likely is tetrachloroethylene to cause cancer?

Studies in humans suggest that exposure to tetrachloroethylene might lead to a higher risk of getting bladder cancer, multiple myeloma, or non-Hodgkin's lymphoma.

In animals, tetrachloroethylene has been shown to cause cancers of the liver, kidney, and blood system.

The Department of Health and Human Services (DHHS) considers tetrachloroethylene to be reasonably anticipated to be a human carcinogen. EPA considers tetrachloroethylene likely to be carcinogenic to humans by all routes of exposure. The International Agency for Research on Cancer (IARC) considers tetrachloroethylene probably carcinogenic to humans.

How can tetrachloroethylene affect children?

It is not known whether children are more susceptible than adults to the effects of tetrachloroethylene.

A few studies in humans have suggested that exposure to tetrachloroethylene increased the numbers of babies with birth defects, but these studies were not large enough to clearly answer the question. Studies in animals exposed by inhalation or stomach tube have not shown clear evidence of specific birth defects.

How can families reduce the risk of exposure to tetrachloroethylene?

- Tetrachloroethylene has been found in low levels in some food. You can minimize the risk of your family's exposure by peeling and thoroughly washing fruits and vegetables before cooking.
- Use bottled water if you have concerns about the presence of tetrachloroethylene in your tap water. You may also contact local drinking water authorities and follow their advice.
- Prevent children from playing in dirt or eating dirt if you live near a waste site that has tetrachloroethylene.
- Tetrachloroethylene is widely used as a scouring solvent that removes oils from fabrics, as a carrier solvent, as a fabric finish or water repellant, and as a metal degreaser/cleaner. Follow instructions on product labels to minimize exposure to tetrachloroethylene.

Is there a medical test to determine whether I've been exposed to tetrachloroethylene?

Tetrachloroethylene and its breakdown products (metabolites) can be measured in blood and urine. However, the detection of tetrachloroethylene or its metabolites cannot predict the kind of health effects that might develop from that exposure. Because tetrachloroethylene and its metabolites leave the body fairly rapidly, the tests need to be conducted within days after exposure.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) has set an 8-hour time weighted average permissible exposure limit of 100 ppm, an acceptable ceiling exposure limit of 200 ppm, and a maximum peak of 300 ppm (not to be exceeded for more than 5 minutes of any 3-hour period).

The National Institute for Occupational Safety and Health (NIOSH) recommends that workplace exposure to tetrachloroethylene be minimized due to concerns about its carcinogenicity.

Reference

This ToxFAQs™ information is taken from the 2019 Toxicological Profile for Tetrachloroethylene produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636

ToxFAQs™ on the web: www.atsdr.cdc.gov/ToxFAQs

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

SAFETY DATA SHEET

Revision Date 26-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Selenium**

Cat No. : **AC419270000; AC419271000; AC419275000**

CAS No 7782-49-2
Synonyms None

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ toxicity - (repeated exposure)	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
May cause damage to organs through prolonged or repeated exposure
Toxic if swallowed or if inhaled

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
May cause long lasting harmful effects to aquatic life

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Selenium	7782-49-2	> 99.5

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture with air.

Hazardous Combustion Products
None known.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen. Incompatible Materials. Acids. Strong oxidizing agents. Fluorine. oxygen. Metals.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Selenium	TWA: 0.2 mg/m³	(Vacated) TWA: 0.2 mg/m³	IDLH: 1 mg/m³ TWA: 0.2 mg/m³	TWA: 0.2 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid Granules
Appearance	Dark grey
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	217 - 222 °C / 422.6 - 431.6 °F
Boiling Point/Range	685 °C / 1265 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 345 °C
Vapor Density	Not applicable
Specific Gravity	4.810
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Se
Molecular Weight	78.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Fluorine, oxygen, Metals

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Selenium	LD50 = 6700 mg/kg (Rat)	Not listed	>5.67 mg/l (Rat) 4hr

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Selenium	7782-49-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Selenium	Not listed	LC50: > 100 mg/L, 96h semi-static (Oncorhynchus mykiss)	Not listed	Not listed

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN3283
Hazard Class	6.1
Packing Group	III

TDG

UN-No	UN3283
Hazard Class	6.1
Packing Group	III

IATA

UN-No	UN3283
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	III

IMDG/IMO

UN-No	UN3283
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Selenium	7782-49-2	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Selenium	7782-49-2	X	-	231-957-4	X	X		X	X	KE-30924

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Selenium	7782-49-2	> 99.5	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Selenium	-	-	X	X

Clean Air Act

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Selenium	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Selenium	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Selenium	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Selenium	7782-49-2	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Selenium	7782-49-2	Not applicable	Not applicable	Not applicable	Annex I - Y25

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 26-Dec-2021
Print Date 26-Dec-2021

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Revision Date 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Sodium Metal**

Cat No. : **S135-1LB; S206-1LB**

Synonyms Natrium.

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Substances/mixtures which, in contact with water, emit flammable gases	Category 1
Skin Corrosion/Irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Danger

Hazard Statements
In contact with water releases flammable gases which may ignite spontaneously
Causes severe skin burns and eye damage
May cause respiratory irritation

Precautionary Statements
Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Keep away from any possible contact with water, because of violent reaction and possible flash fire
Handle under inert gas. Protect from moisture
Response
Immediately call a POISON CENTER or doctor/physician
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Ingestion
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in a dry place. Store in a closed container
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Reacts violently with water

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sodium	7440-23-5	100

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled

	the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	CO_2, dry chemical, dry sand, alcohol-resistant foam. approved class D extinguishers.
Unsuitable Extinguishing Media	Water may be ineffective
Flash Point	Not applicable
Method -	No information available
Autoignition Temperature	115 °C / 239 °F
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
The product causes burns of eyes, skin and mucous membranes. Reacts violently with water.

Hazardous Combustion Products
Hydrogen.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	2	W

6. Accidental release measures

Personal Precautions	Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. No special precautions required.
Environmental Precautions	Should not be released into the environment. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Do not expose spill to water. Pick up and transfer to properly labelled containers.

7. Handling and storage

Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water.
Storage.	Corrosives area. Keep away from water or moist air. Keep in a dry place. Keep away from acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No special protective equipment required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Light grey
Odor	Odorless
Odor Threshold	No information available
pH	
Melting Point/Range	98 °C / 208.4 °F
Boiling Point/Range	883 °C / 1621.4 °F
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 440 °C
Vapor Density	Not applicable
Specific Gravity	0.9684 @ 20°C
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	115 °C / 239 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Na
Molecular Weight	22.99

10. Stability and reactivity

Reactive Hazard Yes

Stability Stable under normal conditions.

Conditions to Avoid Exposure to moist air or water. Exposure to moisture.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Hydrogen

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing. Reacts violently with water.

11. Toxicological information

Acute Toxicity

Product Information
Component Information
Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium	7440-23-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

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Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN1428
Proper Shipping Name	SODIUM
Hazard Class	4.3
Packing Group	I

TDG Forbidden

IATA

UN-No	UN1428
Proper Shipping Name	SODIUM
Hazard Class	4.3
Packing Group	I

IMDG/IMO

UN-No	UN1428
Proper Shipping Name	SODIUM
Hazard Class	4.3
Packing Group	I

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sodium	7440-23-5	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium	7440-23-5	X	-	231-132-9	X	X	X	X	X	KE-31338

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium	X	10 lb	-	-

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium	10 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium	7440-23-5	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium	7440-23-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

Trichloroethylene - ToxFAQs™

CAS # 79-01-6

This fact sheet answers the most frequently asked health questions (FAQs) about trichloroethylene. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Trichloroethylene is used as a solvent for cleaning metal parts. Exposure to very high concentrations of trichloroethylene can cause dizziness headaches, sleepiness, incoordination, confusion, nausea, unconsciousness, and even death. Trichloroethylene has been found in at least 1,051 of the 1,854 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is trichloroethylene?

Trichloroethylene is a colorless, volatile liquid. Liquid trichloroethylene evaporates quickly into the air. It is nonflammable and has a sweet odor.

The two major uses of trichloroethylene are as a solvent to remove grease from metal parts and as a chemical that is used to make other chemicals, especially the refrigerant, HFC-134a.

What happens to trichloroethylene when it enters the environment?

- Trichloroethylene can be released to air, water, and soil at places where it is produced or used.
- Trichloroethylene is broken down quickly in air.
- Trichloroethylene breaks down very slowly in soil and water and is removed mostly through evaporation to air.
- It is expected to remain in groundwater for long time since it is not able to evaporate.
- Trichloroethylene does not build up significantly in plants or animals.

How might I be exposed to trichloroethylene?

- Breathing trichloroethylene in contaminated air.
- Drinking contaminated water.
- Workers at facilities using this substance for metal degreasing are exposed to higher levels of trichloroethylene.
- If you live near such a facility or near a hazardous waste site containing trichloroethylene, you may also have higher exposure to this substance.

How can trichloroethylene affect my health?

Trichloroethylene was once used as an anesthetic for surgery. Exposure to moderate amounts of trichloroethylene may cause headaches, dizziness, and sleepiness; large amounts may cause coma and even death. Eating or breathing high levels of trichloroethylene may damage some of the nerves in the face. Exposure to high levels can also result in changes in the rhythm of the heartbeat, liver damage, and evidence of kidney damage. Skin contact with concentrated solutions of trichloroethylene can cause skin rashes. There is some evidence exposure to trichloroethylene in the work place may cause scleroderma (a systemic autoimmune disease) in some people. Some men occupationally-exposed to trichloroethylene and other chemicals showed decreases in sex drive, sperm quality, and reproductive hormone levels.

How likely is trichloroethylene to cause cancer?

There is strong evidence that trichloroethylene can cause kidney cancer in people and some evidence for trichloroethylene-induced liver cancer and malignant lymphoma. Lifetime exposure to trichloroethylene resulted in increased liver cancer in mice and increased kidney cancer and testicular cancer in rats.

The Department of Health and Human Services (DHHS) considers trichloroethylene to be a known human carcinogen. The International Agency for Research on Cancer (IARC) classified trichloroethylene as carcinogenic to humans. The EPA has characterized trichloroethylene as carcinogenic to humans by all routes of exposure.

Trichloroethylene

CAS # 79-01-6

How can trichloroethylene affect children?

It is not known whether children are more susceptible than adults to the effects of trichloroethylene.

Some human studies indicate that trichloroethylene may cause developmental effects such as spontaneous abortion, congenital heart defects, central nervous system defects, and small birth weight. However, these people were exposed to other chemicals as well.

In some animal studies, exposure to trichloroethylene during development caused decreases in body weight, increases in heart defects, changes to the developing nervous system, and effects on the immune system.

How can families reduce the risk of exposure to trichloroethylene?

- Avoid drinking water from sources that are known to be contaminated with trichloroethylene. Use bottled water if you have concerns about the presence of chemicals in your tap water. You may also contact local drinking water authorities and follow their advice.
- Prevent children from playing in dirt or eating dirt if you live near a waste site that has trichloroethylene.
- Trichloroethylene is used in many industrial products. Follow instructions on product labels to minimize exposure to trichloroethylene.

Is there a medical test to determine whether I've been exposed to trichloroethylene?

Trichloroethylene and its breakdown products (metabolites) can be measured in blood and urine. However, the detection of trichloroethylene or its metabolites cannot predict the kind of health effects that might develop from that exposure. Because trichloroethylene and its metabolites leave the body fairly rapidly, the tests need to be conducted within days after exposure.

Has the federal government made recommendations to protect human health?

The EPA set a maximum contaminant goal (MCL) of 0.005 milligrams per liter (mg/L; 5 ppb) as a national primary drinking standard for trichloroethylene.

The Occupational Safety and Health Administration (OSHA) set a permissible exposure limit (PEL) of 100 ppm for trichloroethylene in air averaged over an 8-hour work day, an acceptable ceiling concentration of 200 ppm provided the 8 hour PEL is not exceeded, and an acceptable maximum peak of 300 ppm for a maximum duration of 5 minutes in any 2 hours.

The National Institute for Occupational Safety and Health (NIOSH) considers trichloroethylene to be a potential occupational carcinogen and established a recommended exposure limit (REL) of 2 ppm (as a 60-minute ceiling) during its use as an anesthetic agent and 25 ppm (as a 10-hour TWA) during all other exposures.

Reference

This ToxFAQs™ information is taken from the 2019 Toxicological Profile for Trichloroethylene produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636

ToxFAQs™ on the web: www.atsdr.cdc.gov/ToxFAQs

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

SAFETY DATA SHEET

Version 8.8
Revision Date 08/23/2023
Print Date 12/02/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Vinyl chloride

Product Number : 387622
Brand : Aldrich
Index-No. : 602-023-00-7
CAS-No. : 75-01-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable gases (Category 1), H220
Gases under pressure (Liquefied gas), H280
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

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Hazard statement(s)

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H350	May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P405	Store locked up.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Chloroethylene

Formula : C_2H_3Cl
Molecular weight : 62.50 g/mol
CAS-No. : 75-01-4
EC-No. : 200-831-0
Index-No. : 602-023-00-7

Component	Classification	Concentration
Vinyl chloride		
	Flam. Gas 1; Press. Gas Liquefied gas; Carc. 1A; H220, H280, H350	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

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If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Pay attention to flashback.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe gas. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

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6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Stop flow of gas, move leaking cylinder to open air if without risk.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Keep away from combustible materials and sources of ignition.

Contents under pressure. Light sensitive.

Storage class
Storage class (TRGS 510): 2A: Gases

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Vinyl chloride	75-01-4	TWA	1 ppm	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Lung cancer Confirmed human carcinogen		

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		STEL	5 ppm	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		TWA	1 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		STEL	5 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		See 1910.1017		
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type ABEK
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/mists are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Liquefied gas Color: colorless
b)	Odor	odorless
c)	Odor Threshold	Not applicable
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -153.8 °C (-244.8 °F) - lit.

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f)	Initial boiling point and boiling range	-13.4 °C 7.9 °F - lit.
g)	Flash point	-62 °C (-80 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 29.3 %(V) Lower explosion limit: 3.8 %(V)
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	0.911 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	9.15 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 1.58 at 22 °C (72 °F) - Bioaccumulation is not expected.
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

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10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - Rat - 2 h - 390 mg/l - gas

Remarks: (ECHA)
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: without metabolic activation
Result: negative
Remarks: (ECHA)
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: positive

Test Type: dominant lethal test
Species: Mouse

Application Route: inhalation (gas)

Result: negative
Remarks: (ECHA)

Test Type: Micronucleus test
Species: Mouse

Application Route: inhalation (gas)
Method: OECD Test Guideline 474
Result: positive

Carcinogenicity
May cause cancer. Positive evidence from human epidemiological studies.

IARC: 1 - Group 1: Carcinogenic to humans (Vinyl chloride)

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NTP: Known - Known to be human carcinogen (Vinyl chloride)

OSHA: OSHA specifically regulated carcinogen (Vinyl chloride)

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 30 mg/kg

RTECS: KU9625000
burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 210 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to bacteria	Remarks: (ECHA) (Vinyl chloride)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 16 % - Not readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Pressurised gas bottle: dispose of only in empty condition! See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 1086 Class: 2.1
Proper shipping name: Vinyl chloride, stabilized
Reportable Quantity (RQ): 1 lbs
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1086 Class: 2.1 EMS-No: F-D, S-U
Proper shipping name: VINYL CHLORIDE, STABILIZED

IATA
UN number: 1086 Class: 2.1
Proper shipping name: Vinyl chloride, stabilized
IATA Passenger: Not permitted for transport

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Sudden Release of Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

Reportable Quantity : D043 lbs

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Massachusetts Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01
Phenol	108-95-2	2007-07-01
hydroquinone	123-31-9	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01
Phenol	108-95-2	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.Vinyl chloride	75-01-4	2007-09-28

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 8.8 Revision Date: 08/23/2023 Print Date: 12/02/2023

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Appendix D
Community Air Monitoring Plan

Community Air Monitoring Plan (CAMP)

for
127 12th Street
Remedial Investigation Work Plan

127 12th Street
Brooklyn, New York
BCP Site # C224411

Submitted to:
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau B
625 Broadway, 12th Floor
Albany, NY 12233-7016

Prepared for:
Di Maio Enterprises Inc.
127 12th Street
Brooklyn, NY 11215

Prepared by:
Matthew M. Carroll, PE
1085 Sackett Avenue
Bronx, NY 10461

December 2025

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

CAMP will be implemented during the subsurface Site investigation activities that will be conducted in accordance with the Remedial Investigation Work Plan (RIWP). Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Site Work Zones

During any activities involving subsurface disturbance, the work area must be divided into various zones to prevent the spread of contamination, ensure that proper protective equipment is donned, and provide an area for decontamination.

The exclusion zone is defined as the area where exposure to impacted media could be encountered. The Contamination Reduction Zone (CRZ) is the area where decontamination procedures take place and is located next to the Exclusion Zone. The Support Zone is the area where support facilities such as vehicles, fire extinguisher, and first air supplies are located. The emergency staging area (part of the Support Zone) is the area where all workers onsite would assemble in the event of an emergency. A summary of these areas is provided below. These zones may change by the Site Safety Officer, depending on that day's activities. All field personnel will be informed of the location of these zones before work begins. Appropriate barriers will be set up to secure the area and prevent any unauthorized personnel from approaching within ten feet of the work area.

Site Work Zones

Task	Exclusion Zone	CRZ	Support Zone
Soil boring, monitoring well, and soil vapor point installation	10 feet from the Geoprobe drill rig	20 feet from the Geoprobe drill rig	As needed

Community Air Monitoring Plan

Real-time air monitoring for VOCs and particulate levels at the perimeter of the exclusion zone or work area will be conducted during all intrusive Site activities in compliance with the New York State Department of Health (NYSDOH) Generic CAMP.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings, monitoring wells, and soil vapor points.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location.

Fixed Air Monitoring Stations

Fixed air monitoring stations will be set up at the upwind and downwind perimeters of the exclusion zone (two total) during the subsurface RI work and will continuously log VOC and particulate levels. One upwind and one downwind station will be installed during the work. The total number of CAMP stations may continue to be revised as onsite conditions necessitate with consultation and approval from NYSDEC and NYSDOH. Each fixed monitoring station will be fully enclosed and equipped with the following:

- A PID equipped with a 10.6 eV lamp capable of calculating 15-minute running average VOC concentrations;

- A TSI DustTrak II or equivalent dust monitor capable of measuring the concentration of airborne respirable particles less than 10 micrometers in size (PM_{10}) and calculating 15-minute running average particulate concentrations; and,
- A Netronix™ Thiamis™ ICU-820 or equivalent Global System for Mobile Communication (GSM)/Global Positioning System (GPS) device capable of recording air monitoring and location data.

Each monitoring station will be capable of sending e-mail or text message alerts to the Site Safety Officer to indicate an exceedance of action levels. Additionally, the SSO will conduct an inspection of the monitoring stations on at least an hourly basis. Upon completion of Site activities, all air monitoring data will be available to download via the iEnvironet or Samsara websites. All air monitoring data recorded at the fixed monitoring stations will be available for NYSDOH and/or NYSDEC review and will be included in the Remedial Investigation Report (RIR). All exceedances will be provided to NYSDEC and NYSDOH within 24 hours of the exceedance along with the reason for the exceedance and the corrective action taken.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the upwind and downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work will be performed using a photoionization detector (PID) equipped with a 10.6 eV lamp. The PID will be calibrated at least daily and will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm,

work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, work activities will be shutdown.

4. All 15-minute readings will be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone on a continuous basis. The particulate monitoring will be performed using real-time monitoring equipment (TSI DustTrak II or equivalent) capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration will be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings will be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates will reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices will be considered to prevent exposures related to the work activities and to control dust and odors.

Consideration will be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring will occur within the occupied structure(s). Background readings in the occupied spaces will be taken prior to commencement of the planned work. Any unusual background readings will be discussed with NYSDOH prior to commencement of the work.

If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities will be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

Depending upon the nature of contamination and investigation activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work with Occupied Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements will be as stated above under “Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures” except that in this instance “nearby/occupied structures” would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge

points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, exhaust fans or other engineering controls may be used to create negative air pressure within the work area during remedial activities. Additionally, consideration will be given to implementing the planned work during hours (e.g. weekends or evenings) when building occupancy is at a minimum.