

REMEDIAL INVESTIGATION REPORT
FORMER A&A BRAKE SERVICE SITE, BROOKLYN, NEW YORK
NYSDEC BCP SITE C224372
558 SACKETT STREET
BROOKLYN, NEW YORK

by H & A of New York Engineering and Geology, LLP New York, New York

for Sackett Heights LLC 1365 St. Nicholas Avenue, 2nd Floor New York, New York 10033

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PREPARED ON BEHALF OF

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Certification

This report documents remedial investigation activities conducted at the Site located at 558 Sackett Street, Brooklyn, New York.

I, Mari C. Conlon, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report¹ was prepared in accordance with all statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan(s) and any DER-approved modifications.

Mari Cate Carlos 16 May 2024

Mari C. Conlon Date

¹ Certification applies to remedial investigation activities conducted after the execution of the Brownfield Cleanup Agreement dated 7 March 2023.

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List of Acronyms and Abbreviations

Α

Alpha Analytical Laboratories, Inc.

AOCs Areas of Concern

ASP Analytical Services Protocol
AST Aboveground Storage Tank

AWQS Ambient Water Quality Standards

В

BCA Brownfield Cleanup Agreement
BCP Brownfield Cleanup Program
BER Business Environmental Risks

bgs below ground surface

Brussee Environmental Corp.

BTEX Benzene, Toluene, Ethylbenzene, Xylenes

C

CAMP Community Air Monitoring Plan
CEQR City Environmental Quality Review

cis-1,2-DCE cis-1,2-dichloroethene

Coastal Environmental Solutions, Inc.

COCs Contaminants of Concern

CVOCs chlorinated volatile organic compounds

D

DER Division of Environmental Remediation

DER-10 Division of Environmental Remediation-10 (specifically "May 2010 NYSDEC

Technical Guidance for Site Investigation and Remediation")

DOT Department of Transportation

DPK DPK Consulting LLC

DUSR Data Usability Summary Report

Ε

ELAP Environmental Laboratory Approval Program EPA U.S. Environmental Protection Agency

ESA Environmental Site Assessment

F

ft bgs feet below ground surface

FSP Field Sampling Plan

FWRIA Fish and Wildlife Resource Impact Analysis



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G

GPR Ground Penetrating Radar
GQS Groundwater Quality Standards

GV Guidance Value

Н

Haley & Aldrich

of New York H & A of New York Engineering and Geology, LLP

HASP Health and Safety Plan

HAZWOPER Hazardous Waste Operations and Emergency Response

HREC Historic Recognized Environmental Condition HVAC Heating, ventilation, and air conditioning

ı

IDW Investigative Derived Waste

L

L/min liters per minute

Lakewood Environmental Services Corp.

М

MCL Maximum Concentration Limit

MDL Method Detection Limit
mg/kg milligrams per kilogram
mg/L milligrams per liter
MGP Manufactured Gas Plant

MS Matrix Spike

MSD Matrix Spike Duplicate

Ν

NAPL/GCM Non-aqueous phase liquid/grossly contaminated material

ng/g nanograms per gram ng/L nanograms per liter

NTU Nephelometric turbidity unit

NYCRR New York Codes, Rules, and Regulations

NYCOER (OER) New York City Mayor's Office of Environmental Remediation
NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

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OSHA Occupational Safety and Health Administration



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Ρ

PAH polycyclic aromatic hydrocarbon

PBS Petroleum Bulk Storage
PCB polychlorinated biphenyl

PCE perchloroethylene/tetrachloroethene
PFAS Per- and Polyfluoroalkyl Substances

PFOA Perfluorooctanoic Acid PFOS Perfluorooctane Sulfonate

PGWSCO Protection of Groundwater Soil Cleanup Objectives

PID Photoionization Detector
PPE Personal Protection Equipment

PPM parts per million

PQL Practical Quantitation Limit

PVC polyvinyl chloride

Q

QA/QC Quality Assurance/Quality Control

QAO Quality Assurance Officer
QAPP Quality Assurance Project Plan

QHHEA Qualitative Human Health Exposure Assessment

R

RA Remedial Action

RAWP Remedial Action Work Plan

REC Recognized Environmental Condition

RI Remedial Investigation

RIR Remedial Investigation Report
RIWP Remedial Investigation Work Plan

RRSCOs Restricted-Residential Soil Cleanup Objectives

S

SCO Soil Cleanup Objective

Site the property located at 558 Sackett Street, Brooklyn, New York

SMP Site Management Plan

SRIWP Supplemental Remedial Investigation Work Plan

SVOC Semi-Volatile Organic Compound

Т

TAL Total Analyte List
TCE trichloroethene
TCL Target Compound List

TCLP Toxicity Characteristic Leaching Procedure



TOGS 1.1.1 Technical and Operational Guidance Series 1.1.1 (Specifically "June 1998

NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values, Class GA for the

protection of a source of drinking water modified per the April 2000 addendum")

U

μg/L micrograms per liter

μg/m³ micrograms per cubic meter

UUSCOs Unrestricted Use Soil Cleanup Objectives

UST Underground Storage Tank

٧

VOCs Volatile Organic Compounds

Volunteer Sackett Heights LLC



1. Introduction

This Remedial Investigation Report (RIR) was developed by H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) on behalf of Sackett Heights LLC for the Former A&A Brake Service Site located at 558 Sackett Street within the Gowanus neighborhood of Brooklyn, New York (the Site). Sackett Heights LLC applied to and was accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) as a Volunteer. A Brownfield Cleanup Agreement (BCA) was executed by the NYSDEC and Sackett Heights LLC (the "Volunteer") on 7 March 2023 (BCP Site No. C224372).

The Site, identified as Section 3, Block 433, Lot 14 on the New York City tax map, is approximately 6,400 square feet (sq ft) in size. The Site is bound to the north by Sackett Street followed by the Former Fulton Works Manufactured Gas Plant (MGP) site (Site No. 224051), to the west by a two-story residential building, to the east by a three-story residential building, and to the south by multi-story residential buildings. The Site location is shown on Figure 1. A Site plan is shown on Figure 2. A Surrounding Sensitive Receptor Map is shown on Figure 3.

The Site is located within a residential and manufacturing zoning district (M1-4/R6A). The Site is in an urban area surrounded by commercial, industrial, and residential properties served by municipal water. The Volunteer plans to redevelop the Site for residential purposes (including affordable housing) consistent with current zoning.

The Site is listed with an environmental E-Designation (E-601) for hazardous materials and air quality (Heating, ventilation, and air conditioning [HVAC] limited to natural gas and exhaust stack location limitations) resulting from a City Environmental Quality Review (CEQR) effective March 2019 (CEQR # 19DCP157K). Satisfaction of the E-Designation requirements is subject to review and approval by the New York City Mayor's Office of Environmental Remediation (NYCOER or OER) prior to redevelopment.

The activities of this Remedial Investigation (RI) were completed from 21 June 2023 through 6 July 2023 in accordance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and the NYSDEC-approved March 2023 Remedial Investigation Work Plan (RIWP). Supplemental sampling activities were completed from 26 March 2024 through 5 April 2024 in accordance with the above-referenced documents as well as the NYSDEC-approved March 2024 Supplemental Remedial Investigation Work Plan (SRIWP).

1.1 PURPOSE AND OBJECTIVES

A previous investigation conducted at the Site identified the presence of metals and semi-volatile organic compounds (SVOCs), specifically polycyclic aromatic hydrocarbons (PAHs), in soil; petroleum-related volatile organic compounds (VOCs) in groundwater; and, petroleum-related VOCs and chlorinated volatile organic compounds (CVOCs) in soil vapor at the Site. A summary of the soil, groundwater, and soil vapor analytical data collected previously is discussed herein and in the RIWP.



Remedial Investigation Report Former A&A Brake Service Site, Brooklyn, New York NYSDEC BCP Site C224372

The previous investigation did not comprehensively delineate the extent of soil, groundwater, and soil vapor contamination on the Site. Additional investigation was required to ascertain and delineate the extent of contamination on the Site, with additional targeted soil and groundwater sampling conducted to further characterize the extent of contamination on the Site. Results of the sample analyses in this investigation were used to confirm the results of the previous Site investigation activities, evaluate any on-Site source(s), and determine a course for remedial action.



2. Site Background

2.1 SITE LOCATION AND DESCRIPTION

The Site, identified as Section 3, Block 433, Lot 14 on the New York City tax map, is approximately 6,400 sq ft in size. The Site is bound to the north by Sackett Street, to the west by a two-story residential building, to the east by a three-story residential structure, and to the south by three multiple-story structures.

The Site is located within a residential and manufacturing zoning district (M1-4/R6A, G). The Site is in an urban area surrounded by residential, commercial, and industrial properties served by municipal water. The Volunteer plans to redevelop the Site for mixed-use commercial and residential purposes (including affordable housing) consistent with current zoning.

The Site is listed with an environmental E-Designation (E-601) for hazardous materials and air quality (HVAC limited to natural gas and exhaust stack location limitations) resulting from a CEQR effective March 2019 (CEQR # 19DCP157K). Satisfaction of the E-Designation requirements is subject to review and approval by the New York City Mayor's OER prior to redevelopment.

A Site location map is provided as Figure 1 and a Site plan showing the property boundaries and adjacent properties is provided as Figure 2.

2.2 GEOLOGY AND HYDROGEOLOGY

The Site is underlain by a layer of fill consisting of mainly brown fine to medium sand with gravel and fragments of concrete, brick, wood, and gravel. The depth of fill material varies across the Site extending to a maximum depth of approximately 10 feet (ft) below ground surface (bgs). The fill is underlain by a fine sand with varying amounts of fine- and coarse-grained sediments, an organic meadow mat/peat layer at a depth of about 10 to 14 ft bgs, followed by brown fine to coarse sand grading to a light brown to dark brown fine sand with varying amounts of medium and coarse sand with fine to coarse gravels and cobbles. Bedrock beneath the Site consists of muscovite-biotite-quartz schist. Depth to bedrock beneath the Site is greater than 100 ft bgs.

Groundwater was encountered at 8.18 to 11.3 ft bgs, and groundwater flow beneath the Site is generally to the southeast. A groundwater contour map is provided on Figure 5.

2.3 SITE HISTORY

The Site was first developed as early as the late 1800s in which the Site was divided into three small tax parcels fronting along Sackett Street. Each of the parcels was developed with a low-rise residential or retail building occupying approximately half of their respective parcels, with several small outbuildings also present. By the late 1930s, the eastern parcel was redeveloped with a one-story building occupying the entire parcel footprint and identified as a private garage. By 1950, the center parcel was developed with a two-story building occupying the entire parcel footprint and identified as a private garage. The eastern building was identified as an auto repair shop. The residence on the western lot was demolished



in the mid- to late-1960s, with the central and eastern buildings both identified as auto repair shops. Between the early and mid-1980s, the western and central parcels were redeveloped with a single two-story building identified as a warehouse. By 1988, this structure was identified as an auto repair shop.

2.4 REDEVELOPMENT PLANS

Although the future development plans are in preliminary design phases, the proposed development will consist of constructing a new eight-story residential building comprised of 34 dwelling units. The new development will encompass approximately half of the lot footprint with the rear area (i.e., the western portion of the Site) used for parking. The building is anticipated as slab on grade and will not include a cellar. An approximately 700 sq ft elevator pit will be excavated to approximately 2 ft bgs with other foundation elements requiring a similar excavation depth. The first floor will contain a lobby, mechanical room, recreation room, bicycle storage room, compactor room, and one bedroom. Floors two through eight will contain residential dwelling units.



3. Summary of Previous Investigations

To date, the following reports have been completed for the Site:

- 1. May 2022 Phase I Environmental Site Assessment (ESA) Prepared by Brussee Environmental Corp. (Brussee).
- 2. May 2022 Limited Phase II ESA Prepared by Brussee.

Previous reports are appended to the approved RIWP. A summary of the environmental findings is provided below.

May 2022 Phase I ESA Prepared by Brussee

A Phase I ESA, dated May 2022, was performed by Brussee for the purpose of identifying Recognized Environmental Conditions (RECs) in connection with the Site.

The Phase I identified the following RECs at the Site:

- Historical use of the Site as a former garage and/or auto repair shop from at least the late-1930s through the early-2020s. The former use as a garage and/or auto repair shop is suspected to have impacted the subsurface quality beneath the Site and is considered a REC at this time, which warrants a Phase II along with a geophysical survey in order to determine if any buried tanks exist on the Site.
- Historical use of the surrounding properties for various industrial and manufacturing uses, machine shops, iron works/foundries, services stations, garages/repair shops, and manufactured gas plant facilities. There is the potential for historic operations at the surrounding properties, most notably the Fulton Municipal Works Former MGP site, which was located across Sackett Street, to have impacted the subsurface.

The following Historic Recognized Environmental Condition (HREC) was identified:

The Site was listed on the Petroleum Bulk Storage (PBS) database as having one 275-gallon waste oil underground storage tank (UST), installed in 1988 and closed-in-place in 2009, and one 275-gallon waste oil aboveground storage tank (AST) installed in 2009. During the Site inspection, there was no evidence of the abandoned UST or the AST, except for a vent pipe observed protruding through the roof of the eastern building.

The following environmental concerns (ASTM Non-Scope Issues/Business Environmental Risks [BERs]) were identified:

The Site was identified as an E-Designation site by the NYCOER and assigned E-Designation E-601 – Gowanus Neighborhood Rezoning as a result of a CEQR effective November 2021 (CEQR #19DCP157K). The requirements under the E-Designation program are satisfaction of the requirements for hazardous materials, noise, and air quality with the NYCOER.



- Fluorescent ballasts were observed within portions of the building during the Site inspection.
 Brussee recommended that a polychlorinated biphenyl (PCB) survey be performed prior to demolition and/or remediation activities.
- The potential for fill materials to be present on the Site due to former retail and residential buildings located in the western and central portions of the Site.
- No friable asbestos-containing materials were observed in the areas inspected on the Site; however, due to the age of the buildings, it is possible that roofing, roof flashing, and other building materials may contain asbestos. Brussee recommended that an asbestos survey be performed prior to any proposed work.

May 2022 Limited Phase II ESA Prepared by Brussee

In May 2022, Brussee conducted a Limited Phase II ESA under oversight from the NYCOER E-Designation program to evaluate potential impacts related to the historic use of the Site. The investigation included the installation of six soil borings up to 20 ft bgs, three temporary groundwater monitoring points, three soil vapor points, and the collection of soil, groundwater, and soil vapor samples. A total of 12 soil samples, three groundwater samples, and three soil vapor samples were collected. Field observations and laboratory analytical results are summarized below:

Soil

Brussee identified urban fill generally consisting of brown silty sand with gravel and brick fragments in each boring extending to depths ranging from 7 to 12 ft bgs. A smear zone of petroleum-impacted soil was encountered at the groundwater table to approximately 6 ft below the groundwater table (10 to 16 ft bgs) within each of the soil borings. Staining and odors were observed around the groundwater interface in each of the borings and Photoionization Detector (PID) readings ranged from non-detect to 15,000 parts per million (ppm). Elevated concentrations of heavy metals including arsenic (maximum concentration of 19.6 milligrams per kilogram [mg/kg]), barium (maximum concentration of 1,540 mg/kg), cadmium (maximum concentration of 14.5 mg/kg), chromium (maximum concentration of 2,900 mg/kg), and mercury (maximum concentration of 4.42 mg/kg) were detected above Restricted-Residential Soil Cleanup Objectives (RRSCOs) within four of the six soil samples.

Petroleum-related VOCs were detected above RRSCOs within two soil samples across the Site. SVOCs, specifically PAHs, were detected above RRSCOs at one sample location.

Groundwater

Groundwater was encountered at a depth of approximately 10 ft bgs. Petroleum-related VOCs were detected above New York State 6 New York Codes, Rules, and Regulations (NYCRR) Part 703.5 Class GA groundwater quality standards (GQS) within all three groundwater samples. The highest VOC concentrations were reported in sample GW1, located in the northern region of the Site along Sackett Street, and the lowest concentrations of VOCs were reported in sample GW3, located in the southern region of the Site.



Soil Vapor

Brussee installed three soil vapor implants at a depth of approximately 7 ft bgs. Soil vapor analytical results were compared to the New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion (October 2006, updated May 2017) Matrix A, Matrix B, and Matrix C guidance values. Elevated concentrations of acetone (maximum concentration of 8,500 micrograms per cubic meter [μ g/m³]), methyl ethyl ketone (maximum concentration of 6,630 μ g/m³), and tetrahydrofuran (maximum concentration of 3,860 μ g/m³) were detected within each of the three soil vapor samples. The CVOCs tetrachloroethene (PCE), with a maximum concentration of 188 μ g/m³, and trichloroethene (TCE), with a maximum concentration of 720 μ g/m³, were detected within soil vapor samples.

Based on the findings of the Limited Phase II ESA, Brussee recommended additional investigation to further characterize soil, groundwater, and soil vapor quality.



4. Remedial Investigation Approach

4.1 PROJECT TEAM

A project team for the Site was created based on qualifications and experience with personnel suited for the successful completion of the project.

The NYSDEC Case Manager/Project Manager was Marnie Chancey. The Case Manager/Project Manager was responsible for overseeing the successful completion of the project work and adherence to the approved RIWP on behalf of NYSDEC.

The NYSDOH Case Manager/Project Manager was Johnathan Robinson. The Case Manager/Project Manager was responsible for overseeing the successful completion of the project work and adherence to the work plan on behalf of NYSDOH.

Mari C. Conlon was the Qualified Environmental Professional and Principal-In-Charge for this work. In this role, Ms. Conlon was responsible for the overall completion of each task as per the requirements outlined in this work plan and in accordance with the DER-10 guidance as well as responsible for communications with the NYSDEC Case Manager/Project Manager regarding project status, schedule, issues, and updates for project work.

Zachary Simmel was the Assistant Project Manager for this work and also acted as the Quality Assurance Officer (QAO). In this role, Mr. Simmel assured the application and effectiveness of the Quality Assurance Project Plan (QAPP) by the analytical laboratory and the project staff, provided input to the field team as to corrective actions that may be required as a result of the above-mentioned evaluations and prepared and/or reviewed data validation and audit reports.

Anna F. Vaculik and Nicole Mooney were the Geologists responsible for implementing the field effort for this work. Ms. Vaculik's and Ms. Mooney's responsibilities included implementing the work plan and supplemental work plan activities and directing the subcontractors to ensure the successful completion of field activities.

The drilling subcontractor utilized for this investigation was Coastal Environmental Solutions, Inc. (Coastal). Coastal provided Sonic rig operators to implement the scope of work of the approved RIWP.

The drilling subcontractor utilized for supplemental investigation activities was Lakewood Environmental Services Corp. (Lakewood). Lakewood provided a track-mounted Geoprobe® direct push drill rig and operator to implement the supplemental sampling scope of work, including advancement of soil borings and installation of groundwater monitoring wells.

Samples were collected in laboratory-prepared sample bottles (pre-preserved when appropriate), placed in ice-packed coolers maintained at approximately 4 degrees Celsius under standard chain of custody procedures, and transported to Alpha Analytical Laboratories, Inc. (Alpha) of Westborough, Massachusetts (Environmental Laboratory Approval Program [ELAP] Certification No. 07010T). Alpha



was responsible for analyzing the samples as per the analyses and methods identified in the approved RIWP.

4.2 GROUND PENETRATING RADAR SURVEY

Haley & Aldrich of New York oversaw a Ground Penetrating Radar (GPR) Survey performed at the Site by Coastal on 21 June 2023. The survey was conducted to identify the presence of any utilities, USTs, or any other anomalies that may be present in the subsurface. The Site was scanned using a ground-penetrating radar dual band 400/800 MHz cart-mounted system, a high-range precision utility detector, and an electromagnetic pipe and cable locator. Soil conditions allowed for a maximum GPR penetration depth of 2 ft bgs below concrete and soil grade. Metallic anomalies/USTs were not detected throughout accessible areas of the Site. Several utilities were marked on the Site in designated colors. Full results of the GPR Survey are provided in Appendix A.

4.3 SOIL BORING INSTALLATION AND SOIL SAMPLING

Soil samples were collected to meet NYSDEC DER-10 requirements for remedial investigations, as well as to further characterize soil conditions. Four soil borings were advanced to 20 ft bgs and an additional four soil borings were advanced to 100 ft bgs using a track-mounted Eijkelkamp CRS-XL-140 Duo Sonic drill rig operated by a licensed operator provided by Coastal, the drilling subcontractor. Soil samples were collected from acetate sleeves using a stainless-steel trowel or sampling spoon. Samples were collected using laboratory-provided clean bottleware. VOC grab samples were collected using terra cores. Sampling locations are displayed in Figure 4.

Soils were logged continuously by a geologist using both the Modified Burmister Soil Classification System and the Unified Soil Classification System. The presence of staining, odors, and PID response was noted. Soil boring logs are provided as Appendix B. Sampling methods are described in the RIWP.

Soil samples representative of Site conditions were collected at eight locations widely distributed across the Site, as shown in Figure 4. As per the approved RIWP, samples were collected from 0 to 0.5 ft bgs, 5 to 7 ft bgs, and 12 to 14 ft bgs at each boring, and samples were collected in borings SB-1, SB-3, SB-7, and SB-8 from 1 to 2 ft bgs. An additional sample was collected from SB-4 at 8 to 10 ft bgs and SB-6 at 10 to 12 ft bgs where petroleum impacts were observed.

Haley & Aldrich of New York collected 80 soil samples (plus quality assurance/quality control [QA/QC] samples) for laboratory analysis. Soil samples were collected in laboratory-supplied containers, which were relinquished under standard chain-of-custody protocol and delivered via laboratory-provided courier to Alpha for analysis.

Alpha is a NYSDOH ELAP-certified laboratory. As detailed in Table 1, soil samples were analyzed for the following:

- Target Compound List (TCL) VOCs using U.S. Environmental Protection Agency (EPA)
 Method 8260B;
- TCL SVOCs using EPA Method 8270C;
- Total Analyte List (TAL) Metals using EPA Method 6010;



- PCBs using EPA Method 8082;
- TCL Pesticides using EPA Method 8081B;
- Per- and Polyfluoroalkyl Substances (PFAS) by EPA Method 1633; and
- 1,4-dioxane by EPA Method 8270 SIM

As per NYDSEC DER-10 requirements, samples analyzed for PFAS and 1,4-dioxane were collected and analyzed in accordance with the NYSDEC-issued April 2023 "Guidelines for sampling and Analysis of PFAS" and the April 2023 "Sampling for 1,4-dioxane and Per- and Polyfluoroalkyl Substances (PFAS) Under DECs Part 375 Remedial Programs," respectively. Table 1 provides a summary of all soil samples collected as part of this RI, including sample locations, sample depths, and analyses performed on each sample.

To investigate the potential for the presence of non-aqueous phase liquid/grossly contaminated material (NAPL/GCM), four soil borings (SB-1, SB-3, SB-7, and SB-8, depicted on Figure 4) were advanced to 100 ft bgs. NAPL/GCM was not identified in any borings and therefore soil samples were not collected for laboratory analysis.

4.3.1 Supplemental Soil Boring Installation and Soil Sampling

Three additional soil borings were installed by a track-mounted direct push drill rig (Geoprobe®) operated by a licensed operator provided by Lakewood. Borings SB-2A and SB-3A were re-installed at RI soil borings SB-2 and SB-3, respectively, to vertically delineate lead and mercury concentrations detected above Unrestricted Use Soil Cleanup Objectives (UUSCOs) during initial RI activities. Soil samples were collected from the re-installed boring at SB-3 at 0 to 0.5 ft bgs, 1 to 3 ft bgs, 3 to 5 ft bgs, 5 to 7 ft bgs, 7 to 9 ft bgs, and 9 to 11 ft bgs. Samples from re-installed SB-2 were collected from these intervals as well as from 12 to 14 ft bgs. These depths were selected as samples collected from 12 to 14 ft bgs in SB-2 did not observe lead or mercury above the UUSCO and samples collected from 9 to 11 ft bgs in SB-3 did not observe lead or mercury above UUSCOs. Samples were collected from acetate liners using a stainless-steel trowel or sampling spoon. Supplemental sample locations are shown on Figure 4a, and a Supplemental Sample and Analysis Plan is provided in Table 1a.

As a contingency, delineation borings surrounding SB-2A were installed 5 ft to the east (SB-2A-E1), south (SB-2A-S1), and west (SB-2A-W1) of the RI boring location to a depth of 14 ft bgs. Delineation borings surrounding SB-3A were installed 5 ft to the west (SB-3A-W1) and south (SB-3A-W1) of the RI boring location to a depth of 11 ft bgs. As a contingency, step-out soil borings were also installed 5 ft from the delineation borings discussed above, with the exception of the western step-out from delineation boring SB-3A-W1 which was not installed due to the presence of utilities. Delineation and contingency borings were sampled at the same intervals as the reinstalled borings discussed above. Samples collected from delineation and contingency borings were placed on hold with the laboratory to be activated for analysis pending results of the reinstalled borings indicating hazardous levels of lead or mercury. An additional sample was collected from SB-2A-S1 at 11 to 11.5 ft bgs where petroleum impacts were observed and analyzed for VOCs and SVOCs as further detailed below and in Section 4.6.



Soils were logged continuously by field personnel using the Modified Burmister Soil Classification System. The presence of staining, odors, and PID response was noted in soil boring logs. Soil boring logs are provided as Appendix B1.

Haley & Aldrich of New York collected 14 supplemental soil samples (plus QA/QC samples) for laboratory analysis. Samples were collected using laboratory-provided clean bottle ware; VOC grab samples were collected using Terra Core sampling devices. Soil samples were relinquished under standard chain-of-custody protocol and delivered via courier to Alpha for analysis.

Soil samples collected from SB-2A and SB-3A were analyzed for the following:

- Total Lead and Mercury by EPA Method 6010; and,
- Toxicity Characteristic Leaching Procedure (TCLP) Lead and Mercury.

An additional soil sample collected from SB-2A-S1 at 11 to 11.5 ft bgs was analyzed for the following:

- TCL VOCs by EPA Method 8260B; and,
- TCL SVOCs using EPA Method by 8270C.

4.4 PERMANENT MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLING

The purpose of groundwater sampling was to obtain current groundwater data and meet NYSDEC DER-10 requirements for remedial investigations.

Four, two-inch permanent monitoring wells were installed to 15 ft bgs. See Figure 4 for monitoring well locations. Each monitoring well was constructed using a 2-inch diameter polyvinyl chloride (PVC) riser pipe with 10-ft-long, 10-slot (0.01-inch) slotted screens from 5 to 15 ft bgs. Each monitoring well was backfilled with #0 certified clean sand fill, followed by bentonite plug, and sealed at grade with steel flush-mount covers. Monitoring well screens were installed to straddle the water table. During a monitoring well gauging event concurrent with the well survey on 14 July 2023, groundwater was encountered at depths ranging from approximately 8.33 to 9.30 ft bgs. Well construction diagrams are provided in Appendix C.

Following installation, monitoring wells were developed by surging a pump in the well several times to pull fine-grained material from the well. Development was completed until the water turbidity was 50 nephelometric turbidity units (NTU) or less, or 10 well volumes were purged.

One week after development, Haley & Aldrich of New York collected nine groundwater samples (plus QA/QC) for laboratory analysis including the following:

- TCL VOCs using EPA Method 8260B;
- TCL SVOCs using EPA Method 8270C;
- Total Metals using EPA Methods 6010/7471;
- Dissolved Metals using EPA Methods 6010/7471;



- TCL Pesticides using EPA Method 8081B;
- PCBs using EPA Method 8082;
- PFAS using EPA Method 1633; and,
- 1,4-dioxane using EPA Method 8270 SIM.

Groundwater samples analyzed for PFAS and 1,4-dioxane were collected and analyzed in accordance with the NYSDEC issued April 2023 "Guidelines for Sampling and Analysis of PFAS" and the April 2023 "Sampling for 1,4-dioxane and PFAS Under DECs Part 375 Remedial Programs," respectively.

Table 1 provides a summary of all groundwater samples collected as part of this RI, including sample locations, sample depths, and analyses performed on each sample.

Groundwater monitoring wells were sampled utilizing low-flow sampling procedures for groundwater sampling. Prior to sampling, the water level was measured from each monitoring well using an electronic water level meter. Groundwater from each well was purged using low pumping rates (less than 500 milliliters per minute) to limit drawdown of the water level. Dedicated disposable field equipment used at each well included high-density polyethylene and silicon tubing. Wells were purged until turbidity, pH, temperature, dissolved oxygen, and specific conductivity stabilized. Field measurements collected from the flow cell were logged and are included in Appendix D.

DPK Consulting LLC (DPK), a New York State-licensed surveyor, completed a monitoring well survey on 14 July 2023 and 26 April 2024. During surveying, Haley & Aldrich of New York performed a synoptic monitoring well gauging event. Groundwater flows to the southeast. A summary of the data collected by the licensed surveyor is provided as Appendix E. A groundwater contour map is provided in Figure 5 and a summary of the synoptic monitoring well gauging results is provided in Appendix F.

4.4.1 Supplemental Permanent Monitoring Well Installation and Groundwater Sampling

The purpose of the supplemental groundwater sampling was to obtain groundwater data to evaluate the presence of petroleum-based VOCs and PAHs at RI boring locations SB-4 and SB-6. Additionally, a monitoring well was installed at supplemental sampling delineation boring SB-2A-S1 where petroleum impacts were observed in soil during supplemental soil sampling. Monitoring well locations are provided on Figure 4a.

Two 2-inch permanent monitoring wells (MW-5 and MW-6) were installed to approximately 17 ft bgs. An additional 2-inch permanent monitoring well (MW-7) was installed to approximately 17 ft bgs. Groundwater was encountered between 8.18 to 11.3 ft bgs during the supplemental groundwater sampling event. Wells were screened from 5 to 15 ft bgs (MW-7) and 7 to 17 ft bgs (MW-5 and MW-6) so that the screen straddled the groundwater interface, and the top of screen was approximately 2 to 3 ft above the measured depth to water. Monitoring wells were installed via hollow-stem augers. Each monitoring well was constructed with a 2-inch annular space and installed using either #0 or #00 certified clean sand fill. Supplemental sampling well construction diagrams are provided as Appendix C.

Monitoring wells were developed as per procedures used in the initial RI sampling.



Table 1a provides a summary of all groundwater samples collected as part of the supplemental sampling activities, including sample locations, sample depths, and analyses performed on each sample.

Haley & Aldrich of New York collected seven groundwater samples (plus QA/QC samples) for laboratory analysis including the following:

- TCL VOCs using EPA Method 8260B;
- TCL SVOCs using EPA Method 8270C;
- Total Metals using EPA Methods 6010/7471;
- Dissolved Metals using EPA Methods 6010/7471;
- TCL Pesticides using EPA Method 8081B;
- PCBs using EPA Method 8082;
- PFAS using EPA Method 1633; and,
- 1,4-dioxane using EPA Method 8270 SIM.

As per NYSDEC DER-10 requirements, all groundwater samples were analyzed for emerging contaminants. Groundwater samples collected for PFAS and 1,4-dioxane were collected in accordance with the protocols established in the NYSDEC's April 2023 "Guidance for Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs" (April 2023 PFAS Guidance).

Groundwater monitoring wells were sampled utilizing low-flow sampling methods as per the approved RIWP and QAPP included as Appendix C of the RIWP.

4.5 SOIL VAPOR PROBE INSTALLATION AND SOIL VAPOR SAMPLING

Soil vapor samples were collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Seven soil vapor probes were installed at 6 to 7 ft bgs, approximately 2 ft above the observed groundwater interface. The vapor implants were installed using a stainless-steel probe to the desired sample depth. Based on current Site conditions (i.e., vacant lot), any impact on sampling efforts was assumed to be minimal.

To ensure the stainless-steel soil vapor probe was sealed completely to the surface using bentonite, a tracer gas was used in accordance with NYSDOH protocols to serve as a QA/QC device to verify the integrity of the soil vapor probe seal. In addition, one to three implant volumes were purged prior to the collection of the soil vapor samples. Sampling occurred for a duration of approximately two hours. At the conclusion of the sampling round, tracer monitoring was performed a second time to confirm the continued integrity of the probe seals.

Samples were collected in appropriately sized Summa canisters that were batch-certified clean by the laboratory. Samples were analyzed for VOCs using EPA Method TO-15. Flow rate for both purging and sampling did not exceed 0.2 liters per minute (L/min). Additional details regarding the sampling methods are described in the Field Sampling Plan (FSP) provided in the approved RIWP. Soil vapor sampling logs are provided in Appendix G.



Table 1 provides a summary of all soil vapor samples collected as part of this RI, including sample locations, sample depths, and analyses performed on each sample.

4.6 DEVIATIONS FROM THE RIWP

The RI was performed in substantial conformance with the approved RIWP with the exception of the following:

- Several boring, monitoring well, and soil vapor points were slightly relocated during the RI due to field conditions or multiple refusals at their original locations.
- Additional soil samples were collected at SB-4 from 8 to 10 ft bgs and SB-6 from 10 to 12 ft bgs due to observed staining and petroleum odors and elevated PID readings observed from 8 to 12 ft bgs across the two borings.

4.6.1 Deviations from the SRIWP

The supplemental sampling was performed in substantial conformance with the approved SRIWP with the exception of the following:

- An additional soil sample was collected at delineation boring SB-2A-S1 from 11 to 11.5 ft bgs
 due to observed impacts, petroleum-like odors, and elevated PID readings observed in that
 boring. This deviation was discussed with the NYSDEC Case Manager via phone on
 26 March 2024.
- An additional monitoring well was installed at the location of delineation boring SB-2A-S1 to assess groundwater in the vicinity of observed soil impacts. This deviation was discussed with the NYSDEC Case Manager via phone on 26 March 2024.
- The delineation step-out boring SB-3A-W2 was not able to be installed due to the presence of utilities.

4.7 QUALITY ASSURANCE/QUALITY CONTROL

The RI and associated supplemental sampling were conducted in accordance with Haley & Aldrich of New York's QAPP provided as an Appendix to the RIWP. Haley & Aldrich of New York's sampling program included several types of QA/QC samples and measures to ensure the usability of the data. QA/QC samples included equipment rinsate/field blanks, trip blanks, sample duplicates, and matrix spike/matrix spike duplicates (MS/MSDs).

When applicable, the sample result summary tables list the laboratory method detection limit (MDL) at which a compound was non-detectable. The laboratory results were reported to the sample-specific practical quantitation limit (PQL), equal to the sample-specific MDL, supported by the instrument calibrations.

The reliability of laboratory data is supported by compliance with sample holding times and laboratory MDLs below cleanup criteria. The accuracy and precision of the laboratory analytical methods were maintained by using calibration and calibration verification procedures, laboratory control samples, and surrogate, matrix, and analytical spikes. A review of the laboratory data packages indicates that holding



times were met and no significant non-conformance issues were reported. Category B laboratory reports are provided in Appendix H. Data will be validated as detailed in Section 6.4 and summarized in Data Usability Summary Reports (DUSRs) which are included in Appendix I.

4.8 INVESTIGATION DERIVED WASTE

Following sample collection, investigation-derived waste was stored in 55-gallon drums. Boreholes were restored to grade with the surrounding area. Groundwater purged from the monitoring wells during development and sample collection was placed into New York State Department of Transportation (DOT)-approved 55-gallon drums pending off-Site disposal. A total of three DOT-approved 55-gallon drums of purge water were produced during the investigation. A total of four DOT-approved 55-gallon drums of soil cuttings were produced during the investigation. On 11 October 2023, the DOT-approved 55-gallon drums containing Investigative Derived Waste (IDW) were transferred off-Site to an approved facility for disposal by Coastal. Manifests are included in Appendix K.

A total of three DOT-approved 55-gallon drums were produced during supplemental sampling: one drum containing soil cuttings and two drums containing purged groundwater and decontamination liquids. The drums are currently labeled and staged on the Site in a manner that prevents leakage, deterioration, or release of waste.

4.9 REPORTING

During the implementation of the NYSDEC-approved RIWP and NYSDEC-approved SRIWP, daily reports were provided to NYSDEC. Daily field reports included a summary of sampling and field activities, investigation progress updates, and photographs of field work. The daily reports from the RI and supplemental sampling are included in Appendix J.



5. Health and Safety

The work outlined above was completed under a Site-specific Health and Safety Plan (HASP) in accordance with Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) regulations. Work was completed in Modified Level D personal protective equipment (PPE). A copy of the HASP is included in Appendix E of the NYSDEC-approved RIWP.

The remedial investigation and supplemental sampling activities were conducted in accordance with a Site-specific Community Air Monitoring Plan (CAMP). CAMP data was provided to NYSDEC in the daily reports included in Appendix J. During the remedial investigation and supplemental sampling activities, air monitoring was performed at one upwind and one downwind location. No concentrations of VOCs or 15-minute average concentration of particulate matter smaller than 10 microns in diameter (PM10) exceeded the action levels of 0.1 ppm and 150 μg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the Site perimeter during intrusive remedial investigation activities. During demolition activities, brief exceedances of dust particulate threshold were experienced due to equipment malfunctions and poor air quality conditions. Due to poor air quality conditions (Air Quality Alert in New York City) on 6 June, 7 June, 8 June, 29 June, and 30 June, particulate readings were higher than other days from the start to end of demolition activities. Exceedances were not observed, and no visible dust was observed on those particular days. On 6 July, there was a brief particulate exceedance due to a large portion of the former building wall being demolished. To mitigate the dust, the area was immediately sprayed with water and work was stopped until readings returned to within CAMP thresholds.



6. Contaminants of Concern and Nature and Extent of Contamination

6.1 APPLICABLE STANDARDS

Soil analytical results were compared to NYSDEC 6 NYCRR Part 375 UUSCOs, Protection of Groundwater Soil Cleanup Objectives (PGWSCOs), and RRSCOs. Note that no standards for PFAS in soil currently exist in New York State, however; NYSDEC published soil guidance values for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in October 2020 (latest revision April 2023). PFOA and PFOS soil sample results are compared to the unrestricted use and restricted residential use soil guidance values outlined in the Part 375 Remedial Programs Guidelines for Sampling and Analysis of PFAS guidance.

Groundwater analytical results were compared to 6 NYCRR Part 703.5 NYSDEC Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values (GV). Groundwater samples to be analyzed for PFAS and 1,4-dioxane will be collected and analyzed in accordance with the NYSDEC November 2022 "Sampling, Analysis and Assessment of PFAS" and the November 2022 "Sampling for 1,4-dioxane and Per- and Polyfluoroalkyl Substances (PFAS) Under DECs Part 375 Remedial Programs," respectively. Emerging contaminants PFOA/PFAS and 1,4-dioxane were compared to the NYSDEC February 2023 GV for PFOA, PFOS, and 1,4-dioxane (latest update February 2023).

No direct comparison standard currently exists for soil vapor samples in New York State.

6.2 REMEDIAL INVESTIGATION SOIL SAMPLING RESULTS

Table 2 summarizes the analytical results from the soil sampling event. Figures 6 and 7 provide the soil boring locations as well as a summary of soil laboratory and field screening data from the sampling event.

6.2.1 Volatile Organic Compounds

One VOC, acetone, was detected in multiple soil samples above the UUSCOs at a maximum concentration of 0.12 mg/kg in soil sample SB-2_5-7′. In addition, multiple VOCs were detected above UUSCOs and PGWSCOs, but not RRSCOs, including benzene (maximum concentration of 0.23 mg/kg in soil sample SB-3_12-14′), sec-butylbenzene (maximum concentration of 16 mg/kg in SB-6_10-12′), naphthalene (maximum concentration of 24 mg/kg in SB-6_10-12′), n-Butylbenzene (maximum concentration of 34 mg/kg in SB-6_10-12′), and n-propylbenzene (maximum concentration of 100 mg/kg in SB-6_10-12′). Four VOCs were detected above RRSCOs in soil sample SB-6_10-12′ including 1,2,4-trimethylbenzene (concentration of 360 mg/kg), 1,3,5-trimethlybenzene (concentration of 87 mg/kg), ethylbenzene (concentration of 54 mg/kg), and xylene (concentration of 130 mg/kg).

VOCs were compared to PGWSCOs for compounds detected above the NYSDEC AWQS in groundwater samples. The VOCs benzene (maximum concentration of 0.23 mg/kg in SB-3_12-14') and n-propylbenzene (maximum concentration of 100 mg/kg in SB-6_10-12') were detected above the NYSDEC AWQS in groundwater samples from both the 2023 and 2024 groundwater sampling events and were found to exceed the PGWSCOs.



No other VOCs were detected in any soil samples above applicable standards.

6.2.2 Semi-Volatile Organic Compounds

Seven SVOCs, specifically PAHs, were detected in multiple shallow soil samples at concentrations above the UUSCOs, RRSCOs, and/or PGWSCOs including benzo(a)anthracene (maximum concentration of 15 mg/kg in SB-5_5-7'), benzo(a)pyrene (maximum concentration of 14 mg/kg in SB-5_5-7'), benzo(b)fluoranthene (maximum concentration of 14 mg/kg in SB-5_5-7'), benzo(k)fluoranthene (maximum concentration of 4.3 mg/kg in SB-5_5-7'), chrysene (maximum concentration of 14 mg/kg in SB-5_5-7'), dibenz(a,h)anthracene (maximum concentration of 1.7 mg/kg in SB-1_5-7'), and indeno(1,2,3-cd)pyrene (maximum concentration of 8.3 mg/kg in SB-1_5-7').

In addition, SVOCs were compared to PGWSCOs for compounds detected above NYSDEC AWQS in groundwater samples. SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected above NYSDEC AWQS in groundwater samples collected during both the 2023 and 2024 groundwater sampling events and were found to exceed the PGWSCOs.

No other SVOCs were detected in any soil samples above applicable standards.

6.2.3 Pesticides

Three pesticides were detected at concentrations exceeding the UUSCOs, but not the RRSCOs, in multiple soil samples including 4,4'-DDD (maximum concentration of 0.127 mg/kg in SB-4_0-0.5), 4,4'-DDE (maximum concentration of 0.0466 mg/kg in SB-4_0-0.5'), and 4,4'-DDT (maximum concentration of 0.279 mg/kg in SB-4_0-0.5').

No other pesticides were detected in any soil samples above applicable standards.

6.2.4 Metals

Six metals were detected above the UUSCOs, RRSCOs, and/or PGWSCOs in multiple soil samples including arsenic (maximum concentration of 26.5 mg/kg in SB-5_0-0.5), beryllium (maximum concentration of 11.8 mg/kg in SB-4_0-0.5'), copper (maximum concentration of 3,080 mg/kg in SB-1_0-0.5'), lead (maximum concentration of 2,080 mg/kg in SB-3_5-7'), mercury (maximum concentration of 12.2 mg/kg in SB-3_1-2'), nickel (maximum concentration of 423 mg/kg in SB-4_0-0.5'), and zinc (maximum concentration of 6,200 mg/kg in SB-4_0-0.5'). Barium was detected above the RRSCO in soil sample SB-3_5-7' only at a concentration of 481 mg/kg. Beryllium was detected above the UUSCO in soil sample SB-1_1-2' only at a concentration of 9.55 mg/kg. Selenium was detected above the UUSCO and PGWSCO in soil sample SB-3_5-7' only at a concentration of 4.67 mg/kg. Silver was detected above the USUCO and PGWSCO in soil sample SB-1_0-0.5' at a concentration of 10.3 mg/kg. Manganese was detected above UUSCOs, RRSCOs, and PGWSCOs in soil sample SB-5_0-0.5' only at a concentration of 2,680 mg/kg.

Metals were compared to PGWSCOs for compounds detected in groundwater samples. Lead (maximum concentration of 2,080 mg/kg in SB-3_5-7'), manganese (maximum concentration of 2,680 mg/kg in SB-



5_0-0.5'), and selenium (maximum concentration of 4.67 mg/kg in SB-3_5-7') were detected above AWQS in groundwater samples from both the 2023 and 2024 groundwater sampling events and were found to exceed the PGWSCOs.

No other metals were detected in any soil samples above applicable standards.

6.2.5 Polychlorinated Biphenyls

Total PCBs were detected exceeding the UUSCOs in multiple shallow soil samples at a maximum concentration of 3.11 mg/kg in SB-4 0-0.5'.

No other PCBs were detected in any soil sample above applicable standards.

6.2.6 Emerging Contaminants

The emerging contaminant, 1,4-dioxane was not detected above laboratory detection limits in any soil samples collected at the Site.

PFOS was detected above the UUSCO and PGWSCO in two soil samples at a maximum concentration of 1.09 nanograms per gram (ng/g) in SB-2_5-7'. PFOA was detected above the UUSCOs in two soil samples, one of which exceeded the PGWSCO, at a maximum concentration of 1.04 ng/g in SB-2_5-7'. Total PFOS and PFOA ranged from non-detect to a maximum concentration of 2.13 ng/g in SB-2_5-7.

6.2.7 Field Screening

Soils with elevated PID readings and/or petroleum-like odors and staining were observed in soil boring SB-4 from 8 to 15 ft bgs with a maximum PID reading of 615.4 ppm and in soil boring SB-6 from 10 to 14 ft bgs with a maximum PID reading of 317 ppm.

6.2.8 Supplemental Soil Sampling

Table 2a summarizes the analytical results from the supplemental soil sampling event. Figure 6a provides the supplemental soil boring locations as well as a summary of soil laboratory and field screening data from the supplemental sampling event. Soil boring logs from the supplemental sampling event are provided in Appendix B1.

6.2.8.1 Volatile Organic Compounds

Six VOCs were detected above the UUSCOs, RRSCOs, and/or PGWSCOs in soil sample SB-2A-S1_11-11.5′, including 1,2,4-trimethylbenzene at a concentration of 100 mg/kg, 1,3,5-trimethylbenzene at a concentration of 27 mg/kg, ethylbenzene at a concentration of 60 mg/kg, naphthalene at a concentration of 3,300 mg/kg, n-propylbenzene at a concentration of 9.5 mg/kg, and total xylenes at a concentration of 56 mg/kg.

VOCs were compared to PGWSCOs for compounds detected above the NYSDEC AWQS in groundwater samples. The VOCs 1,2,4-trimethylbenzene (maximum concentration of 360 mg/kg in SB-6_10-12'),



1,3,5-trimethylbenzene (maximum concentration of 87 mg/kg in SB-6_10-12'), sec-butylbenzene (maximum concentration of 16 mg/kg in SB-6_10-12'), ethylbenzene (maximum concentration of 60 mg/kg in SB-2A-S1_11-11.5'), n-butylbenzene (maximum concentration of 34 mg/kg in SB-6_10-12'), naphthalene (maximum concentration of 3,300 mg/kg in SB-2A-S1_11-11.5'), and total xylenes (maximum concentration of 130 mg/kg in SB-6_10-12') were detected above NYSDEC AWQS in groundwater samples collected during the 2024 groundwater sampling event and were found to exceed the PGWSCOs in soil samples collected during the 2023 and/or 2024 soil sampling events.

No other VOCs were detected in soil sample SB-2A-S1 11-11.5' above applicable standards.

6.2.8.2 Semi-Volatile Organic Compounds

One SVOC, naphthalene, was detected above the UUSCO, RRSCO, and PGWSCO in soil sample SB-2A-S1_11-11.5' at a concentration of 120 mg/kg.

No other SVOCs were detected in soil sample SB-2A-S1_11-11.5' above applicable standards.

6.2.8.3 *Metals*

Two metals, lead and mercury, were detected above UUSCOs, RRSCOs, and/or PGWSCOs in multiple soil samples with maximum concentrations detected in soil sample SB-3A_5-7' of 1,900 mg/kg and 41.3 mg/kg, respectively. TCLP Lead was detected below the EPA TCLP Regulatory Levels at a maximum concentration of 1.24 milligrams per Liter (mg/L) in SB-2A_0-0.5'. TCLP mercury was non-detect in all supplemental soil samples collected.

6.2.8.4 Field Screening

Soils with elevated PID readings and/or petroleum-like odors and staining were observed in soil boring 2A from 12 to 13 ft bgs with a maximum PID reading of 58.3 ppm, in delineation boring SB-2A-S1 from 11 to 13 ft bgs with a maximum PID reading of 303 ppm, and in SB-3A from 6 to 10 ft bgs with a maximum PID reading of 368.4 ppm.

6.3 GROUNDWATER SAMPLING RESULTS

Table 3 summarizes the analytical results from the groundwater sampling event. Figures 8 and 9 provide the groundwater monitoring well locations as well as a summary of the groundwater data from the sampling event. Groundwater sample logs are provided in Appendix D.

6.3.1 Volatile Organic Compounds

Five VOCs were identified in up to three groundwater samples (MW-1, MW-2, and MW-3) at concentrations exceeding the AWQS. The VOCs, 1,2,4,5-tetramethylbenzene, isopropylbenzene, and n-propylbenzene were detected above AWQS in two groundwater samples, all with maximum concentrations detected in MW-2 of 17 micrograms per liter (μ g/L), 15 μ g/L, and 12 μ g/L, respectively. 1,2-Dichloroethane was detected above the AWQS in two groundwater samples with a maximum



concentration of 1.7 μ g/L. Benzene was detected above the AWQS in MW-2, including the duplicate sample, at a maximum concentration of 8.8 μ g/L.

No other VOCs were detected in any groundwater samples above the AWQS.

6.3.2 Semi-Volatile Organic Compounds

Four SVOCs were identified in groundwater sample MW-2 (and the duplicate sample) only at concentrations exceeding the AWQS. Benzo(b)fluoranthene and benzo(k)fluoranthene were detected above the AWQS in the duplicate sample only at a concentration of 0.02 μ g/L, respectively. Chrysene was detected above the AWQS in MW-2 only at an estimated concentration of 0.01 μ g/L. Indeno(1,2,3-cd)pyrene was detected above the AWQS in the duplicate sample only at an estimated concentration of 0.05 μ g/L.

No SVOCs were detected above any laboratory detection limits in any groundwater sample.

6.3.3 Organochlorine Pesticides

No pesticides were detected above laboratory detection limits in any groundwater sample.

6.3.4 Polychlorinated Biphenyls

No PCBs were detected above laboratory detection limits in any groundwater sample.

6.3.5 Total Metals

Seven metals were identified in up to four groundwater samples above the AWQS. Antimony and cadmium were detected above the AWQS in MW-3 only at a concentration of 7.49 μ g/L and 6.16 μ g/L, respectively. Iron was detected above the AWQS in MW-3, including the duplicate sample, with a maximum concentration of 44,400 μ g/L in the duplicate sample. Magnesium was detected in three groundwater samples above the AWQS with a maximum concentration of 59,700 μ g/L In MW-1. Manganese was detected in three groundwater samples, including the duplicate sample, above the AWQS with a maximum concentration of 8,244 μ g/L in MW-1. Selenium was detected above the AWQS in MW-1 only at a concentration of 14.4 μ g/L. Sodium was detected in all four groundwater samples, including the duplicate sample, above the AWQS at a maximum concentration of 252,000 μ g/L in MW-1.

No other total metals were detected in any groundwater samples above the AWQS.

6.3.6 Dissolved Metals

Six metals were identified in up to four groundwater samples above the AWQS. Antimony, cadmium, and selenium were detected above the AWQS in MW-3 only at a concentration of 7.03 μ g/L, 5.52 μ g/L, and 12.7 μ g/L, respectively. Magnesium was detected in three groundwater samples above the AWQS with a maximum concentration of 53,200 μ g/L in MW-1. Manganese was detected in three groundwater samples, including the duplicate, above the AWQS with a maximum concentration of 8,254 μ g/L in MW-



1. Sodium was detected in all four groundwater samples including the duplicates sample, above the AWQS at a maximum concentration of 227,000 µg/L in MW-1.

No other dissolved metals were detected in any groundwater samples above the AWQS.

6.3.7 Emerging Contaminants

Concentrations of 1,4-dioxane were compared to the GV of 0.35 μ g/L issued on 15 March 2023 by the NYSDEC. Emerging contaminants PFOA/PFAS were compared to the February 2023 NYSDEC GVs. PFOA was detected above the NYSDEC GV in four groundwater samples at a maximum concentration of 105 nanograms per liter (ng/L) in MW-2. The concentration of total PFOS and PFOA compounds ranged from 50.57 ng/L in MW-4 to a maximum concentration of 356.48 ng/L in MW-3. 1,4-dioxane was in two groundwater samples at a maximum concentration of 0.119 μ g/L in MW-2.

An on-Site source area for emerging contaminants was not identified at the Site.

6.3.8 Supplemental Groundwater Sampling

Table 3a summarizes the analytical results from the supplemental groundwater sampling event. Figures 8a and 9a provide the groundwater monitoring well locations as well as a summary of the groundwater data from the supplemental sampling event. Groundwater sample logs from the supplemental sampling event are provided in Appendix D1.

6.3.8.1 Volatile Organic Compounds

Fifteen VOCs were identified in five groundwater samples (MW-4, MW-5, MW-6, MW-7, and the duplicate sample collected at MW-7) at concentrations exceeding the AWQS. The VOCs ispropylbenzene (cumene) and n-propylbenzene were detected above the AWQS in four groundwater samples at maximum concentrations in MW-6 of 160 μ g/L and 570 μ g/L, respectively. Ethylbenzene and PCE were detected above the AWQS in three groundwater samples, with maximum concentrations of 90 μ g/L in MW-7 and 29 μ g/L in MW-4, respectively. The VOCs 1,2,4,5-tetramethylbenzene, 2-phenylbutane (secbutylbenzene), and n-butylbenzene were detected above the AWQS in two groundwater samples with maximum concentrations of 160 μ g/L, 36 μ g/L, and 53 μ g/L, respectively, in MW-6. The VOCs 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, m,p-xylenes, naphthalene, o-xylene, and total xylenes were detected above the AWQS in two groundwater samples, including the duplicate sample, with maximum concentrations in MW-7 of 57 μ g/L, 16 μ g/L, 3.8 μ g/L (in both MW-7 and the associated duplicate sample), 42 μ g/L, 800 μ g/L, 34 μ g/L, and, 76 μ g/L, respectively. Cis-1,2-dichloroethene and TCE were detected above the AWQS in MW-4 at concentrations of 8.6 μ g/L and 5.7 μ g/L, respectively.

No other VOCs were detected above the AWQS in any groundwater samples collected during supplemental sampling.

6.3.8.2 Semi-Volatile Organic Compounds

One SVOC, biphenyl, was identified in MW-7 (including the associated duplicate sample) above the AWQS at a maximum concentration of 8 µg/L. Additionally, six PAHs were detected in multiple



groundwater samples above the AWQS with maximum concentrations detected in the duplicate sample collected from MW-7, including acenaphthene (maximum concentration 32 μ g/L in both MW-7 and the associated duplicate sample), benzo(a)anthracene (maximum concentration 2.2 μ g/L), benzo(b)fluoranthene (maximum concentration 1.6 μ g/L), benzo(k)fluoranthene (maximum concentration 0.51 μ g/L), chrysene (maximum concentration 2 μ g/L), and indeno(1,2,3-cd)pyrene (maximum concentration 0.88 μ g/L).

No other SVOCs were detected above the AWQS in any groundwater samples collected during supplemental sampling.

6.3.8.3 Organochlorine Pesticides

No pesticides were detected above the AWQS in any supplemental groundwater sample.

6.3.8.4 Polychlorinated Biphenyls

Total PCBs were detected slightly above the AWQS in MW-2 only at a concentration of 0.093 $\mu g/L$.

No other PCBs were detected above the AWQS in any supplemental groundwater sample.

6.3.8.5 Total Metals

Seven metals were identified out of eight groundwater samples (including the duplicate sample) above the AWQS. Antimony was detected above the AWQS in MW-3 only at an estimated concentration of 3.75 μ g/L. Lead, manganese, and selenium were detected above the AWQS in two groundwater samples at maximum concentrations of 46.67 μ g/L in the duplicate sample, 6,697 μ g/L in MW-6, and 38.8 μ g/L in MW-5, respectively. Magnesium was detected above the AWQS in four groundwater samples at a maximum concentration of 56,800 μ g/L in MW-1. Iron was detected above the AWQS in five groundwater samples, including the duplicate sample, at a maximum concentration of 14,000 μ g/L in MW-5. Sodium was detected above the AWQS in each of the eight groundwater samples collected, including the duplicate sample, at a maximum concentration of 113,000 μ g/L in MW-5.

No other total metals were detected in any supplemental groundwater samples above the AWQS.

6.3.8.6 Dissolved Metals

Six metals were identified out of eight groundwater samples (including the duplicate sample) above the AWQS. Antimony and selenium were detected above the AWQS in one groundwater sample each, at maximum concentrations of 5.42 μ g/L in MW-3 and 37.3 μ g/L in MW-5, respectively. Iron and manganese were detected above the AWQS in two groundwater samples at maximum concentrations of 4,630 μ g/L in MW-5 and 7,032 μ g/L in MW-6, respectively. Magnesium was detected above the AWQS in four groundwater samples, at a maximum concentration of 53,100 μ g/L in MW-1. Sodium was detected above the AWQS in all eight groundwater samples, including the duplicate sample, at a maximum concentration of 112,000 μ g/L in MW-5.

No other dissolved metals were detected in any supplemental groundwater samples above the AWQS.



6.3.8.7 Emerging Contaminants

Concentrations of 1,4-dioxane were compared to the GV of 0.35 μ g/L issued on 15 March 2023 by the NYSDEC. Emerging contaminants PFOA/PFAS were compared to the February 2023 NYSDEC GVs. 1,4-dioxane was detected below the GV in one groundwater sample at an estimated concentration of 0.132 μ g/L in MW-4. PFOS and PFOA were detected above the NYSDEC GVs in eight groundwater samples, including the duplicate sample, at maximum concentrations of 26.8 ng/L in the duplicate sample and 82 ng/L in MW-1, respectively. The concentration of total PFOS and PFOA compounds ranged from 22.3 ng/L in MW-2 to a maximum concentration of 102 ng/L in the duplicate sample.

An on-Site source area for emerging contaminants was not identified at the Site.

6.4 SOIL VAPOR SAMPLING RESULTS

Table 4 provides a summary of the analytical results from the soil vapor sampling event. Figure 10 provides the soil vapor sampling locations as well as a summary of soil vapor data from the sampling event. The soil vapor purge log is provided in Appendix G and includes details on each soil vapor sample collected.

Total VOC concentrations in soil vapor samples ranged from 293.13 μ g/m³ in sample SV-6 to 2,761.48 μ g/m³ in sample SV-5. Total benzene, toluene, ethylbenzene, xylenes (BTEX) concentrations ranged from 43.51 μ g/m³ in sample SV-6 to 208.35 μ g/m³ in sample SV-7.

1,1,1-trichloroethane was detected in SV-4, SV-5, SV-6, and SV-7 with a maximum concentration of 69.8 $\mu g/m^3$ in SV-7. 1,1-dichloroethene was detected above laboratory detection limits in SV-7 only at a concentration of 87.2 $\mu g/m^3$. Cis-1,2-Dichloroethene was detected above laboratory detection limits in SV-2 and SV-7 with a maximum concentration of 4.4 $\mu g/m^3$ in SV-2. Methylene Chloride was detected above laboratory detection limits in SV-2, SV-3, SV-4, SV-6, and SV-7 at a maximum concentration of 69.5 $\mu g/m^3$ in SV-2. PCE was detected in all seven soil vapor samples above laboratory detection limits at a maximum concentration of 313 $\mu g/m^3$ in SV-4. TCE was detected in all seven soil vapor samples above laboratory detection limits at a maximum concentration of 145 $\mu g/m^3$ in SV-2. Vinyl Chloride was detected in SV-2 and SV-7 at a maximum concentration of 82.6 $\mu g/m^3$ in SV-2. No other CVOCs were detected above laboratory detection limits in any soil vapor sample collected at the Site.

Multiple petroleum-related VOCs were detected at elevated concentrations in several soil vapor samples, 2,2,4-trimethylpentane (maximum concentration of 2,220 $\mu g/m^3$ in SV-5), cyclohexane (maximum concentration of 70.2 $\mu g/m^3$ in SV-7), n-heptane (maximum concentration of 82.8 $\mu g/m^3$ in SV-7), ethylbenzene (maximum concentration of 25.7 $\mu g/m^3$ in SV-3), and toluene (maximum concentration of 77.6 $\mu g/m^3$ in SV-7).

6.5 DATA VALIDATION

DUSRs were created to confirm the compliance of methods with the protocols described in the NYSDEC Analytical Services Protocol (ASP). DUSRs are provided in Appendix I. The completeness goal of greater than 90 percent was exceeded as per the approved QAPP. Category B laboratory reports for all soil samples were provided by Alpha and will be forwarded to Haley & Aldrich of New York's data validator.



6.6 DATA USE

Validated analytical data, supplied in ASP Category B Data Packages in Appendix H, were submitted to the NYSDEC EQuIS $^{\text{TM}}$ database in an Electronic Data Deliverable package on 11 October 2023.

Validated analytical data from the supplemental sampling were submitted to the NYSDEC EQuIS[™] database in an Electronic Data Deliverable package on 16 May 2024.



7. Conceptual Site Model

7.1 SITE CONTAMINANT SUMMARY

The following summarizes contaminants identified at the Site:

7.1.1 Site-Wide Contaminated Fill in Subsurface Soils

Subsurface soils are impacted with elevated concentrations of VOCs, SVOCs (specifically PAHs), heavy metals, and in some areas, pesticides and PCBs. Contaminated fill material varies throughout the Site extending to depths up to 10 ft bgs.

A slight exceedance of benzene as compared to the PGWSCO was detected in SB-3(12-14). It is noted there is a lack of elevated benzene in the non-saturated zone above the groundwater interface and in the sample collected at the interface from 9 to 11 ft bgs. This indicates the source of benzene is likely attributed to groundwater. This detection was noted in the northeast corner of the Site with groundwater flowing to the southeast. Benzene was not observed in soil or groundwater in sample locations located downgradient on the Site, which points to an off-Site upgradient source contributing to these elevated detections which are not being carried further downgradient of the Site.

7.1.2 **VOC Impacts to Groundwater**

VOCs were detected above the AWQS in six of the 11 groundwater samples collected at the Site. The greatest concentrations of petroleum-related VOCs were detected in MW-7. VOC impacts to groundwater are likely attributable to the former Site use as an auto repair shop.

7.1.3 Soil Vapor Impacts

Based on a review of analytical data collected during this RI, VOCs were detected in soil vapor and have potentially partitioned from soil and/or groundwater into the vapor phase.

7.2 POTENTIAL SOURCES

Based on the analytical results of the RI, the primary contaminants of concern (COCs) for the Site are VOCs, specifically petroleum-related VOCs, SVOCs (specifically PAHs), and heavy metals in soil, and in some areas pesticides and PCBs; VOCs, SVOCs (especially PAHs), and heavy metals in groundwater; and VOCs, including CVOCs, in soil vapor. Based on the identified contaminants, the source of contamination in soil, groundwater, and soil vapor is likely the result of the former use of an auto repair shop at the Site, the presence of fill material, and the use of the adjacent properties as former MGPs.



8. Human Health and Environmental Risk Evaluation

8.1 HUMAN HEALTH RISK EVALUATION

A qualitative human health exposure assessment (QHHEA) consists of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating chemical fate and transport. An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has the following five elements:

- Receptor population;
- 2. Contaminant source;
- 3. Contaminant release and transport mechanism;
- 4. Point of exposure; and
- 5. Route of exposure.

An exposure pathway is complete when all five elements of an exposure pathway are documented; a potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway is not documented but could reasonably occur. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway does not exist in the present and will not exist in the future.

8.1.1 Receptor Population

The receptor population includes the people who are or may be exposed to contaminants at a point of exposure. The identification of potential human receptors is based on the characteristics of the Site, the surrounding land uses, and the probable future land uses. The Site is currently vacant; therefore, receptors would only include construction/maintenance workers that may be employed to perform work on the property, and exposure routes would include direct contact activities and/or inhalation of soil vapor during ground intrusive activities (i.e., construction of the building's foundation and sub-grade cellar).

At this time, Site development plans are conceptual; however, it is anticipated that the project will consist of the development of an eight-story residential building encompassing approximately half the Site footprint with no cellar, which is consistent/compatible with surrounding property use and zoning. Exposed receptors under the future use scenario may comprise residents of the future building, indoor employees, outdoor employees (e.g., groundskeepers or maintenance staff), and construction workers who may be employed at or perform work on the property. Site visitors may also be considered receptors; however, their exposure would be similar to that of the indoor employees but at a lesser frequency and duration. In addition, residents or employees in off-Site adjoining buildings have the potential to be exposed to vapors.



8.1.1.1 Sensitive Human and Ecological Receptors

There are multiple sensitive human and ecological receptors within a one-half mile radius of the Site including public and private schools, daycare centers, parks, playgrounds, recreation areas, libraries and healthcare facilities. In addition, the Gowanus Canal, a estuarine marine deepwater habitat, is located approximately 0.1 miles to the west of the Site. Sensitive human and ecological receptors within this radius are shown and labeled on Figure 3.

8.1.2 Contaminant Sources

The source of contamination is defined as either the source of contaminant release to the environment (such as a waste disposal area or point of discharge) or the impacted environmental medium (soil, air, water) at the point of exposure. Sections 6.0 and 7.0 discuss the COCs present in the Site media at elevated concentrations. In general, these are metals, PCBs, pesticides, and SVOCs (including PAHs) in soil; VOCs and metals in groundwater; and petroleum-related VOCs and CVOCs in soil vapor.

8.1.3 Contaminant Release and Transport

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed and are specific to the type of contaminant and site use. For VOCs present in soil vapor, the potential exists for exposure through pathways associated with soil vapor intrusion. This would include the indoor vapor intrusion pathway (also referred to as "soil vapor intrusion").

8.1.4 Exposure Points, Routes, and Mechanisms

The point of exposure is a location where actual or potential human contact with a contaminated medium may occur. Based on the exceedances of RRSCOs for metals, VOCs, and SVOCs, and exceedances of UUSCOs for PCBs and pesticides in soil, the exceedance of AWQS for metals and SVOCs, and VOCs above laboratory detection limits in soil vapor, the point of exposure is defined as the entire Site.

The route of exposure is the manner in which a contaminant actually enters or contacts the body (e.g., ingestion, inhalation, dermal absorption). Based on the types of receptors and points of exposure identified above, potential routes of exposure are listed below:

<u>Current Use Scenario</u>: The Site is currently vacant and covered with a concrete slab. Exposure to contaminated surface soil and contaminated groundwater is possible only during subsurface investigations and other activities that breach the concrete slab. Release and transport mechanisms include contaminated surface soil transported as dust, contaminated groundwater flow, and volatilization of contaminates from soil and/or groundwater into vapor phase.

- Site Visitors and Public Adjacent to Site –inhalation and incidental ingestion.
- Construction/Utility/Site Investigation Worker skin contact, inhalation, and incidental ingestion.



<u>Construction/Remediation Scenario:</u> As part of the implementation of the remedial action, the existing engineering controls for the Site (concrete slab) will be removed. In the absence of engineering and institutional controls, there will be exposure pathways during construction/remediation specifically related to surface soil. Construction/remedial activities include excavation and off-Site disposal of soil and installation of engineering controls. Release and transport mechanisms include disturbed and exposed soil during excavation, contaminated soil transported as dust, inhalation of dust from contaminated soil, and volatilization of contaminates from soil and/or groundwater into the vapor phase.

- Site Visitors and Public Adjacent to Site –inhalation and incidental ingestion.
- Construction/Utility/Remediation Worker –skin contact, inhalation, and incidental ingestion

<u>Future Use Scenario</u>: The anticipated remedial approach includes the installation of engineering controls including but not limited to a composite cover system. In the absence of engineering and institutional controls, remaining contaminant release and transport mechanisms include the migration of contaminated groundwater and volatilization of contaminants from soil and/or groundwater into the vapor phase. Routes of future exposure include cracks in the foundation or slab, or emergency repairs to the foundation walls or slab. Persons at risk of exposure, via the indicated exposure routes, are noted below.

- Construction/Utility Worker skin contact, inhalation, and incidental ingestion.
- Occupant/Employee/Visitor inhalation.
- Public Adjacent to Site inhalation.

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed and are specific to the type of contaminant and site use. For VOCs present in soil vapor, the potential exists for exposure through pathways associated with soil vapor intrusion. This would include the indoor vapor intrusion pathway (also referred to as "soil vapor intrusion").

Concerning the indoor air pathway, under the current and future use scenario, soil vapor intrusion is a relevant transport mechanism. Soil vapor intrusion would entail soil vapor migrating from under the building slab and potentially impacting the indoor air above the slab. This pathway may also exist for the public in adjacent off-Site structures and properties which may also be impacted by sources of soil vapor contamination from their subsurface or other off-Site impacts. Concerning skin contact, inhalation, and incidental ingestion of volatile organics present in soil and groundwater, the potential exists for exposure to VOCs for construction workers involved in subsurface activities where volatiles are present at elevated concentrations.

8.1.5 Exposure Assessment

Based on the above assessment, the potential exposure pathways for the current and future use conditions are listed below.



<u>Current Use Scenario</u>: Site contamination includes VOCs, SVOCs, pesticides, and metals in soil, groundwater, and soil vapor related to fill and the historical Site operations. Under current conditions, the likelihood of exposure to soil or groundwater is limited, as the Site is affixed with a perimeter fence secured with a lock. Site access is only granted to personnel associated with the planned development. Potable water for Kings County will continue to be sourced from reservoirs in the Catskill and Delaware Watersheds. All intrusive work on the Site is done in accordance with a Site-specific HASP and the donning of PPE.

Construction/Remediation Scenario: The exposure element exists for all media during this phase. The overall risk will be minimized by the implementation of a Site-specific Construction Health and Safety Plan, localized monitoring of organic vapors, community air monitoring on the Site perimeter for particulates and VOCs, vapor and dust suppression techniques, installation of a stabilized entrance, cleaning truck tires and undercarriages and donning of appropriate PPE. Additionally, the Site will be under a Remedial Action Work Plan (RAWP) which will include a Soil Materials Management Plan that will highlight measures for PPE, covering of stockpiles, housekeeping, suppression techniques (particulates and vapor), and measures to prevent off-Site migration of contaminates. In addition, the Site will be secured and inaccessible to the public during remedial construction.

<u>Future Use Scenario</u>: Under the proposed future condition (after construction/remediation), residual contaminants may remain on the Site depending on the remedy achieved. The remaining contaminants would include those listed in the current conditions. If contaminants remain on-Site after construction/remediation, the route of exposure will be mitigated by proper installation of engineering controls, such as a Site capping system foundation and sub-slab depressurization system, implementation of institutional controls, such as land use and groundwater use restrictions, and implementation of a Site Management Plan (SMP) to manage referenced controls.

8.2 FISH AND WILDLIFE IMPACT ANALYSIS

NYSDEC DER-10 requires an on-Site and offs-Site Fish and Wildlife Resource Impact Analysis (FWRIA) if the stipulated criteria are met. The Site, which was developed as early as the late 1800s and operated as a private garage and auto repair shop from 1950 until it became vacant in or around 2018, is located in the Gowanus neighborhood of Brooklyn, New York. The Site provides little or no wildlife habitat or food value and/or access to the detected subsurface contamination. No natural waterways are present on or adjacent to the Site. The proposed future use of the Site is for residential purposes. As such, no unacceptable ecological risks are expected under the current and future use scenarios.



9. Conclusions and Recommendations

9.1 CONCLUSIONS

Based on the results of Site investigations, the following conclusions have been identified:

- The primary contaminants of concern for the Site are VOCs, specifically petroleum-related VOCs, SVOCs (specifically PAHs), and heavy metals in soil, and in some areas, pesticides and PCBs; petroleum-related VOCs, SVOCs (especially PAHs), and heavy metals in groundwater; and VOCs, including CVOCs, in soil vapor. Based on the identified contaminants, the source of contamination in soil, groundwater, and soil vapor is likely the result of the former use of an auto repair shop at the Site, the presence of fill material, and the use of the adjacent properties as former MGPs.
- Subsurface soils are impacted with elevated levels of VOCs 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, ethylbenzene, n-Propylbenzene, and total xylenes; SVOCs benzo(a)anthracene, benzo(a)pyrene. benzo(b), benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene; metals, including arsenic, barium, copper, lead, mercury, and nickel; and PCB aroclor 1248 at concentrations exceeding RRCOS. Pesticides were detected at concentrations exceeding UUSCOs. These findings are consistent with the characteristics of the Site's former use as an auto repair shop and contaminated fill. Fill material varies in depth throughout the Site extending to depths as great as 10 ft bgs.
- Based on a review of analytical data collected during this RI, VOCs have been detected in soil vapor. The detected concentrations of VOCs in soil and groundwater coupled with former Site operations indicate the potential for VOCs to have partitioned from soil and/or groundwater into the vapor phase.

9.2 **RECOMMENDATIONS**

Based on the results of the RI, remedial action will be necessary to proceed with the anticipated redevelopment plan.

To address the areas of concern (AOCs), Haley & Aldrich of New York is evaluating the utilization of a combination of remedial techniques. Applicable strategies and technologies may include, but are not limited to, source removal, and installation of engineering controls which will be detailed in a RAWP.



References

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- Remedial Investigation Work Plan. A&A Brake Service Site, Brooklyn, New York. Prepared by Sackett Heights LLC & Haley & Aldrich of New York, prepared for the New York State Department of Environmental Conservation. Submitted September 2022
- 3. Supplemental Remedial Investigation Work Plan, Former A&A Brake Service Site, Brooklyn, New York. Prepared by Haley & Aldrich of New York, prepared for the New York State Department of Environmental Conservation, March 2024.
- 4. Phase I Environmental Site Assessment Report, 558-562 Sackett Street, Brooklyn, New York. Prepared by Brussee Environmental Corp., prepared for Moundfield Equities, May 2022.
- 5. Limited Phase II Environmental Site Assessment. 558 Sackett Street, Brooklyn, New York. Prepared by Brussee Environmental Corp., prepared for Moundfield Equities, May 2022.
- 6. Program Policy DER-10, "Technical Guidance for Site Investigation and Remediation," New York State Department of Environmental Conservation, May 2010.
- 7. Program Policy Part 375, "Sampling, Analysis, And Assessment Of Per-And Polyfluoroalkyl Substances (PFAS) New York State Department of Environmental Conservation, April 2023.
- 8. New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006).

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TABLES

TABLE 1
SAMPLE AND ANALYSIS PLAN
558 SACKETT STREET
BROOKLYN, NEW YORK
FILE NO. 0206384

Boring Number	Sample Date	Sample Depth	Target Compound List VOCs (8260B)	Target Compound List SVOCs (8270C)	Metals (6010)	PCBs (8082)	Pesticides (8081B)	PFAS (1633)	1,4-Dioxane (8270 SIM)	VOCs (TO-15)
					SOIL					
	6/21/2023	0-0.5'	X	X	X	X	X	X	X	
	6/21/2023	1-2'	X	X	X	Х	Х	X	X	
SB-1	6/21/2023	5-7'	X	X	X	X	Х	X	X	
	6/21/2023	10-12'	Х	X	X	Х	Х	X	X	
	6/21/2023	12-14'	X	X	X	Х	Х	X	Х	
	6/21/2023	0-0.5'	X	X	X	X	X	X	X	
SB-2	6/21/2023	5-7'	X	X	X	X	X	X	X	
	6/21/2023	12-14'	X	X	X	X	X	X	X	
	6/26/2023 6/26/2023	0-0.5' 1-2'	X X	X X	X X	X X	X X	X X	X X	
SB-3	6/26/2023	1-2 5-7'	X	X	X	X	X	X	X	
30-3	6/26/2023	9-11'	X	X	X	X	X	X	X	
ŀ	6/26/2023	12-14'	X	X	X	X	X	X	X	
	6/21/2023	0-0.5'	X	x	X	X	X	X	X	
ŀ	6/21/2023	5-7'	X	X	X	X	X	X	X	
SB-4	6/21/2023	8-10'	X	x	X	X	X	X	X	
	6/21/2023	12-14'	X	X	X	X	X	X	X	
	6/21/2023	0-0.5'	X	X	X	X	X	X	X	
SB-5	6/21/2023	5-7'	X	X	X	X	X	X	X	
[6/21/2023	12-14'	X	X	X	X	X	X	X	
	6/21/2023	0-0.5'	X	X	X	X	X	X	X	
50.6	6/21/2023	5-7'	X	X	X	X	X	X	X	
SB-6	6/21/2023	10-12'	Х	Х	Х	Х	Х	Х	Х	
	6/21/2023	12-14'	Х	X	X	Х	Х	Х	Х	
	6/22/2023	0-0.5'	X	X	X	Х	Х	X	Х	
	6/22/2023	1-2'	X	X	X	X	Х	X	Х	
SB-7	6/22/2023	5-7'	Х	X	X	X	Х	X	X	
	6/22/203	9-11'	X	X	X	X	Х	X	X	
	6/22/2023	12-14'	X	X	X	Х	Х	X	X	
	6/23/2023	0-0.5'	X	X	X	Х	Х	X	Х	
	6/23/2023	1-2'	X	X	X	X	Х	X	Х	
SB-8	6/23/2023	5-7'	Х	X	X	Х	Х	X	Х	
	6/23/2023	9-11'	Х	X	X	X	X	X	X	
	6/23/2023	12-14'	Х	Х	X	Х	Х	X	Х	
DUP01_20230621	6/21/2023	SB-5_5-7'	х	х	х	Х	Х	X	х	
DUP02_20230622	6/26/2023	SB-3_5-7'	х	x	x	x	х	x	х	
SB-4_5-7'_MS	6/21/2023	5-7'	X	X	X	X	Х	X	Х	
SB-4_5-7'_MSD	6/21/2023	5-7'	X	X	X	Х	Х	X	Х	
SB-8_12-14'_MS	6/23/2023	12-14'	X	X	X	X	X	X	X	
SB-8_12-14'_MSD	6/23/2023	12-14'	X	X	X	X	X	X	X	
FB01_20230621	6/21/2023	=	X	X	X	X	X	X	Х	
FB02_20230622	6/22/2023	-	Х	X	X	X	Х	X	Х	
TB01_20230621	6/21/2023	-	X							
TB02_20230622	6/22/2023	-	X							
TB03_20230623	6/23/2023	-	X				—			
TB04_20230626	6/26/2023		Х		CROUNDWATER		<u> </u>		L	
A04/ 4	7/17/2023		T v		GROUNDWATER	V				
MW-1 MW-2		-	X	X	X	X	X	X	X	
MW-2 MW-3	7/6/2023 7/17/2023	-	X X	X	X	X X	X X	X X	X X	
MW-3 MW-4	7/17/2023	-	X	X X	X X	X	X	X X	X	
DUP01_20230706	7/1//2023	MW-2	X	X	X	X	X	X X	X	
MW-2_MS	7/6/2023	- IVIVV-Z	X	X	X	X	X	X	X	
MW-2_MSD	7/6/2023	-	X	X	X	X	X	X	X	
FB 20230717	7/17/2023	-	X	x	X	X	X	X	X	
TB01_20230706	7/6/2023	-	X	^	^					
TB02_20230717	7/17/2023	-	X							
av. ·	6/00/	I			SOIL VAPOR				ı	
SV-1	6/28/2023	6-7'	1							X
SV-2	6/26/2023	6-7'								X
SV-3 SV-4	6/28/2023 6/26/2023	6-7' 6-7'	-							X
SV-4 SV-5	6/26/2023	6-7' 6-7'	1							X X
SV-6	6/28/2023	6-7	1							X
SV-7	6/26/2023	6-7'	1							X
3V-/	0/20/2023	0-/	1	I			I .		l .	X

Notes:
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
PCBs - Polychlorinated biphenyls
PFAS - Per- and Polyfluoroalkyl Substances

QAQC samples include: MS/MSD - 1 for every 20 samples Field Duplicate - 1 for every 20 samples Trip Blanks - 1 per cooler of samples to be analyzed for VOCs Field Blanks - 1 for every 20 samples

Groundwater samples analyzed for total and dissolved metals Soil Borings SB-1, SB-3, SB-7, and SB-8 were installed to 100 ft bgs as part of the NAPL/GCM investigation.

TABLE 1a SUPPLEMENTAL SAMPLE AND ANALYSIS PLAN

558 SACKETT STREET BROOKLYN, NEW YORK FILE NO. 0206384

	Sample Date	Sample Depth	VOCs (8260B)	Target Compound List SVOCs (8270C)	Total Analyte List Metals (6010)	PCBs (8082)	Pesticides (8081B)	PFAS (1633)	1,4-Dioxane (8270 SIM)	Total/TCLP Lead & Mercury
					SOIL					
	3/26/2024	0-0.5'								X
	3/26/2024	1-3'								X
	3/26/2024	3-5'								X
SB-2A	3/26/2024	5-7'								X
	3/26/2024	7-9'								Х
	3/26/2024	9-11'								X
	3/26/2024	12-14'								X
SB-2A-S1	3/26/2024	11-11.5'	Х	Х						
	3/26/2024	0-0.5'								Х
	3/26/2024	1-3'								Х
SB-3A	3/26/2024	3-5'								X
3B-3A	3/26/2024	5-7'								Х
	3/26/2024	7-9'								Х
	3/26/2024	9-11'								X
DUP03_20240326	3/26/2024	SB-2A_12-14'								Х
TB-01_20240326	3/26/2024	-	Х							
					GROUNDWATER					
MW-1	4/4/2024	-	X	X	Χ	Χ	Х	Χ	Х	
MW-2	4/5/2024	-	Х	Х	Х	Χ	Х	Χ	Х	
MW-3	4/3/202	-	Х	Х	Χ	Х	Х	Χ	Х	
MW-4	4/4/2024	-	X	Х	Х	Х	Х	Х	Х	
MW-5	4/3/2024	-	X	Х	Х	Χ	Х	Х	Х	
MW-6	4/5/2024	-	Х	Х	Х	Χ	Х	Х	Х	
MW-7	4/3/2024	-	Х	Х	Χ	Х	Х	Χ	Х	
DUP1_20240403	4/3/2024	MW-7	X	Х	Х	Х	Х	Х	Х	
MW-4_20240404_MS	4/4/2024	-	X	Х	Х	Х	Х	Х	Х	
MW-4_20240404_MSD	4/4/2024	-	X	Х	Х	Х	Х	Х	Х	
Field blank	4/4/2024	-	X	Х	Х	Х	Х	Х	Х	
trip blank	4/3/2024	-	X							
trip blank	4/4/2024	-	X							
trip blank	4/5/2024	-	X							

Notes:

VOCs - Volatile Organic Compounds SVOCs - Semi-volatile Organic Compounds PCBs - Polychlorinated biphenyls

PFAS - Per- and Polyfluoroalkyl Substances

QAQC samples include:

MS/MSD - 1 for every 20 samples Field Duplicate - 1 for every 20 samples

Trip Blanks - 1 per cooler of samples to be analyzed for VOCs

Field Blanks - 1 for every 20 samples

Groundwater samples analyzed for total and dissolved metals

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

		Action Level		T															
	Location Name Restricted	Use NY Part 375	NY Part 375	SB-1	SB-1	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3	SB-3	SB-3	SB-3	SB-4	SB-4
	Sample Name Soil Clean	up Restricted	Unrestricted	SB-1_0-0.5	SB-1_1-2	SB-1_5-7	SB-1_10-12	SB-1_12-15	SB-2_0-0.5	SB-2_5-7	SB-2_12-14	SB-3_0-0.5	SB-3_1-2	SB-3_5-7	DUP02_20230625	SB-3_9-11	SB-3_12-14	SB-4_0-0.5	SB-4_5-7
	Sample Date Objective	s - Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/21/2023	06/21/2023
	Lab Sample ID Protection	· ·	Soil Cleanup	L2335535-01	L2335535-02	L2335535-03	L2335535-04	L2335535-05	L2335535-06	L2335535-07	L2335535-08	L2336505-01	L2336505-02	L2336505-03	L2336505-06	L2336505-04	L2336505-05	L2335535-09	L2335535-10
	Sample Depth (bgs) Groundwa	ter Objectives	Objectives	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 15 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)
Volatile Organic Compounds (mg/kg)																			
1,1,1,2-Tetrachloroethane	NA	NA	NA	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
1,1,1-Trichloroethane	0.68	100	0.68	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
1,1,2,2-Tetrachloroethane	NA	NA	NA	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047) J
1,1,2-Trichloroethane	NA	NA	NA	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
1,1-Dichloroethane	0.27	26	0.27	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
1,1-Dichloroethene	0.33	100	0.33	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
1,1-Dichloropropene	NA	NA	NA	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
1,2,3-Trichlorobenzene	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,2,3-Trichloropropane	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,2,4,5-Tetramethylbenzene	NA	NA	NA	ND (0.0026)	0.00043 J	0.1 J+	0.01	0.0027	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	0.00072 J	0.014	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,2,4-Trichlorobenzene	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,2,4-Trimethylbenzene	3.6	52	3.6	ND (0.0026)	0.0017 J	0.0011 J+	0.0042	0.00073 J	ND (0.0025)	0.00041 J	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	0.0018 J	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	ND (0.0039)	ND (0.0037)	ND (0.0029)	ND (0.0027)	ND (0.0025)	ND (0.0038)	ND (0.0031)	ND (0.0028)	ND (0.0051)	ND (0.0036)	ND (0.0043)	ND (0.004)	ND (0.003)	ND (0.012)	ND (0.0033)	ND (0.0028) J
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095) J
1,2-Dichlorobenzene	1.1	100	1.1	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,2-Dichloroethane	0.02	3.1	0.02	0.00055 J	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
1,2-Dichloroethene (total)	NA	NA	NA	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	0.0033	0.001	0.00098	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	0.0036 J	ND (0.0011)	ND (0.00095)
1,2-Dichloropropane	NA	NA	NA	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
1,3,5-Trimethylbenzene	8.4	52	8.4	ND (0.0026)	0.00079 J	0.00027 J+	0.00026 J	0.0002 J	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	0.00022 J	ND (0.0078)	ND (0.0022)	ND (0.0019)
1,3-Dichlorobenzene	2.4	49	2.4	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,3-Dichloropropane	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019)
1,3-Dichloropropene	NA 1.0	NA 12	NA 1.0	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
1,4-Dichlorobenzene	1.8 NA	13	1.8	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,4-Diethylbenzene		NA 13	NA 0.1	ND (0.0026)	ND (0.0025)	0.029	0.0053	0.00094 J	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	0.00051 J	ND (0.0078)	ND (0.0022)	ND (0.0019) J
1,4-Dioxane	0.1 NA	13 NA	0.1	ND (0.1) J	ND (0.099)	ND (0.077) J	ND (0.071) J	ND (0.068)	ND (0.1) J	ND (0.083)	ND (0.075)	ND (0.14)	ND (0.096)	ND (0.12)	ND (0.11)	ND (0.08)	ND (0.31)	ND (0.088)	ND (0.076)
2,2-Dichloropropane 2-Butanone (Methyl Ethyl Ketone)	0.12	100	NA 0.12	ND (0.0026) 0.0066 J	ND (0.0025) ND (0.012)	ND (0.0019) ND (0.0096)	ND (0.0018) 0.0043 J	ND (0.0017) 0.003 J	ND (0.0025) ND (0.013)	ND (0.0021) 0.0072 J	ND (0.0019) 0.003 J	ND (0.0034) ND (0.017)	ND (0.0024) ND (0.012)	ND (0.0029) ND (0.014)	ND (0.0027) ND (0.013)	ND (0.002) 0.007 J	ND (0.0078) 0.022 J	ND (0.0022) 0.0049 J	ND (0.0019) ND (0.0095)
2-Chlorotoluene	NA	NA	NA	ND (0.0026)	ND (0.012) ND (0.0025)	ND (0.0036)	ND (0.0018)	ND (0.0017)	ND (0.013) ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.017)	ND (0.012) ND (0.0024)	ND (0.014) ND (0.0029)	ND (0.013) ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0093)
2-Hexanone (Methyl Butyl Ketone)	NA NA	NA NA	NA NA	ND (0.0020)	ND (0.0023)	ND (0.0013)	ND (0.0018)	ND (0.0017)	ND (0.0023)	ND (0.0021)	ND (0.0013)	ND (0.0034)	ND (0.0024)	ND (0.0023)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) 1
2-Phenylbutane (sec-Butylbenzene)	11	100	11	ND (0.013) 3 ND (0.0013)	ND (0.012)	0.027	0.001	0.00027 J	ND (0.013) 3	ND (0.01)	ND (0.0094)	ND (0.0017)	ND (0.012)	ND (0.014)	0.00025 J	0.0017	ND (0.0039)	ND (0.011) ND (0.0011)	ND (0.0095) J
4-Chlorotoluene	NA NA	NA	NA	ND (0.0013)	ND (0.0012)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0013)	ND (0.001)	ND (0.00034)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0027)	ND (0.002)	ND (0.0039)	ND (0.0011) ND (0.0022)	ND (0.00093) J
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	NA NA	NA NA	NA NA	ND (0.0026)	0.00092 J	ND (0.0019)	0.0029	0.00042 J	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	0.00055 J	ND (0.0078)	ND (0.0022)	ND (0.0019) J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone		NA NA	NA NA	ND (0.013)	ND (0.012)	ND (0.0096)	ND (0.0089)	ND (0.0085)	ND (0.013)	ND (0.01)	ND (0.0094)	ND (0.017)	ND (0.012)	ND (0.014)	ND (0.013)	ND (0.01)	ND (0.039)	ND (0.011)	ND (0.0095)
Acetone	0.05	100	0.05	0.084 J	0.0078 J	ND (0.0096)	0.013	0.04 J	ND (0.013)	0.12 J	0.023 J	0.033	ND (0.012)	ND (0.014)	ND (0.013)	0.032	0.1	0.056 J	0.0081 J
Acrylonitrile	NA NA	NA NA	NA	ND (0.0052)	ND (0.005)	ND (0.0038)	ND (0.0036)	ND (0.0034)	ND (0.005)	ND (0.0041)	ND (0.0038)	ND (0.0068)	ND (0.0048)	ND (0.0058)	ND (0.0053)	ND (0.004)	ND (0.016)	ND (0.0044)	ND (0.0038)
Benzene	0.06	4.8	0.06	ND (0.00066)	0.00027 J	ND (0.00048)	0.029	0.019	ND (0.00063)	0.00018 J	0.18	0.0014	ND (0.0006)	ND (0.00072)	ND (0.00067)	0.00028 J	0.23	0.00089	0.00027 J
Bromobenzene	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019) J
Bromodichloromethane	NA	NA	NA	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
Bromoform	NA	NA	NA	ND (0.0052)	ND (0.005)	ND (0.0038)	ND (0.0036)	ND (0.0034)	ND (0.005)	ND (0.0041)	ND (0.0038)	ND (0.0068)	ND (0.0048)	ND (0.0058)	ND (0.0053)	ND (0.004)	ND (0.016)	ND (0.0044)	ND (0.0038)
Bromomethane (Methyl Bromide)	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024) J	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019)
Carbon disulfide	NA	NA	NA	ND (0.013)	ND (0.012)	ND (0.0096)	ND (0.0089)	ND (0.0085)	ND (0.013)	ND (0.01)	ND (0.0094)	ND (0.017)	ND (0.012)	ND (0.014)	ND (0.013)	ND (0.01)	0.031 J	ND (0.011)	ND (0.0095)
Carbon tetrachloride	0.76	2.4	0.76	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
Chlorobenzene	1.1	100	1.1	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
Chlorobromomethane	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019)
Chloroethane	NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	ND (0.0078)	ND (0.0022)	ND (0.0019)
Chloroform (Trichloromethane)	0.37	49	0.37	ND (0.002)	ND (0.0018)	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0019)	ND (0.0015)	ND (0.0014)	ND (0.0025)	ND (0.0018)	ND (0.0022)	ND (0.002)	ND (0.0015)	ND (0.0058)	ND (0.0016)	ND (0.0014)
Chloromethane (Methyl Chloride)	NA	NA	NA	ND (0.0052)	ND (0.005)	ND (0.0038)	ND (0.0036)	ND (0.0034)	ND (0.005)	ND (0.0041)	ND (0.0038)	ND (0.0068)	ND (0.0048)	ND (0.0058)	ND (0.0053)	ND (0.004)	ND (0.016)	ND (0.0044)	ND (0.0038)
cis-1,2-Dichloroethene	0.25	100	0.25	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	0.0033	0.001	0.00098	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	0.0029 J	ND (0.0011)	ND (0.00095)
cis-1,3-Dichloropropene	NA	NA	NA	ND (0.00066)	ND (0.00062)	ND (0.00048)	ND (0.00045)	ND (0.00042)	ND (0.00063)	ND (0.00052)	ND (0.00047)	ND (0.00085)	ND (0.0006)	ND (0.00072)	ND (0.00067)	ND (0.0005)	ND (0.0019)	ND (0.00055)	ND (0.00047)
Cymene (p-Isopropyltoluene)	NA	NA	NA	ND (0.0013)	ND (0.0012)	0.00047 J	0.00086 J	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095) J
Dibromochloromethane	NA	NA	NA	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL
558 SACKETT STREET
BROOKLYN, NEW YORK

			Action Level																	
	Location Name	Restricted Use	NY Part 375	NY Part 375	SB-1	SB-1	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3	SB-3	SB-3	SB-3	SB-4	SB-4
	Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-1_0-0.5	SB-1_1-2	SB-1_5-7	SB-1_10-12	SB-1_12-15	SB-2_0-0.5	SB-2_5-7	SB-2_12-14	SB-3_0-0.5	SB-3_1-2	SB-3_5-7	DUP02_20230625	SB-3_9-11	SB-3_12-14	SB-4_0-0.5	SB-4_5-7
	Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/21/2023	06/21/2023
	Lab Sample ID	Protection of	Soil Cleanup Objectives	Soil Cleanup	L2335535-01	L2335535-02	L2335535-03	L2335535-04	L2335535-05	L2335535-06	L2335535-07	L2335535-08	L2336505-01	L2336505-02	L2336505-03	L2336505-06	L2336505-04	L2336505-05	L2335535-09	L2335535-10
Dibramamathana	Sample Depth (bgs)	Groundwater	,	Objectives	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 15 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)
Dibromomethane Dichlorodifluoromethane (CFC-12)		NA NA	NA NA	NA NA	ND (0.0026) ND (0.013)	ND (0.0025) ND (0.012)	ND (0.0019) ND (0.0096)	ND (0.0018) ND (0.0089)	ND (0.0017) ND (0.0085)	ND (0.0025) ND (0.013)	ND (0.0021) ND (0.01)	ND (0.0019) ND (0.0094)	ND (0.0034) ND (0.017)	ND (0.0024) ND (0.012)	ND (0.0029) ND (0.014)	ND (0.0027) ND (0.013)	ND (0.002) ND (0.01)	ND (0.0078) ND (0.039)	ND (0.0022) ND (0.011)	ND (0.0019) ND (0.0095)
Ethyl Ether		NA NA	NΔ	NA NA	ND (0.0026)	ND (0.012) ND (0.0025)	ND (0.0030)	ND (0.0083)	ND (0.0083) ND (0.0017)	ND (0.013) ND (0.0025)	ND (0.01)	ND (0.0034) ND (0.0019)	ND (0.017) ND (0.0034)	ND (0.012)	ND (0.014)	ND (0.0027)	ND (0.01)	ND (0.0078)	ND (0.011) ND (0.0022)	ND (0.0033)
Ethylbenzene		1	41	1	ND (0.0013)	ND (0.0012)	ND (0.00096)	0.0067	0.00047 J	ND (0.0013)	0.0008 J	0.0012	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	0.00024 J	0.001 J	0.00021 J	ND (0.00095)
Hexachlorobutadiene		NA	NA	NA	ND (0.0052)	ND (0.005)	ND (0.0038)	ND (0.0036)	ND (0.0034)	ND (0.005)	ND (0.0041)	ND (0.0038)	ND (0.0068)	ND (0.0048)	ND (0.0058)	ND (0.0053)	ND (0.004)	ND (0.016)	ND (0.0044)	ND (0.0038) J
Isopropylbenzene (Cumene)		NA	NA	NA	ND (0.0013)	ND (0.0012)	0.0062 J+	0.017	0.0022	ND (0.0013)	0.00013 J	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	0.0064	ND (0.0039)	ND (0.0011)	0.00013 J
m,p-Xylenes		NA	NA	NA	ND (0.0026)	ND (0.0025)	ND (0.0019)	0.00097 J	0.00064 J	ND (0.0025)	0.00058 J	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	0.00085 J	ND (0.0078)	ND (0.0022)	ND (0.0019)
Methyl Tert Butyl Ether (MTBE)		0.93	100	0.93	ND (0.0026)	ND (0.0025)	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	ND (0.002)	0.0023 J	ND (0.0022)	ND (0.0019)
Methylene chloride (Dichloromethane)		0.05	100	0.05	ND (0.0066)	ND (0.0062)	ND (0.0048)	ND (0.0045)	ND (0.0042)	ND (0.0063)	ND (0.0052)	ND (0.0047)	ND (0.0085)	ND (0.006)	ND (0.0072)	ND (0.0067)	ND (0.005)	ND (0.019)	ND (0.0055)	ND (0.0047)
Naphthalene		12	100	12	ND (0.0052)	0.018	0.0023 J+	0.0099	0.002 J	ND (0.005)	0.0042	0.00064 J	ND (0.0068)	ND (0.0048)	ND (0.0058)	ND (0.0053)	0.0021 J	ND (0.016)	0.0034 J	ND (0.0038) J
n-Butylbenzene		12	100	12	ND (0.0013)	ND (0.0012)	0.032 J+	0.0021	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	0.00027 J	0.0035	ND (0.0039)	ND (0.0011)	ND (0.00095)
n-Propylbenzene		3.9	100	3.9	ND (0.0013)	ND (0.0012)	0.018 J+	0.0075	0.00034 J	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	0.00026 J	0.0046	ND (0.0039)	0.00026 J	0.00037 J
o-Xylene		NA	NA	NA	ND (0.0013)	0.00054 J	ND (0.00096)	0.0016	0.001	ND (0.0013)	0.00032 J	0.00028 J	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	0.00034 J	ND (0.0039)	ND (0.0011)	ND (0.00095)
Styrene		NA 5.0	NA	NA 5.0	ND (0.0013)	ND (0.0012)	ND (0.00096)	0.0002 J	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	ND (0.0039)	ND (0.0011)	ND (0.00095)
tert-Butylbenzene		5.9	100	5.9	ND (0.0026)	ND (0.0025)	0.00057 J+	ND (0.0018)	ND (0.0017)	ND (0.0025)	ND (0.0021)	ND (0.0019)	ND (0.0034)	ND (0.0024)	ND (0.0029)	ND (0.0027)	0.00022 J	ND (0.0078)	ND (0.0022)	ND (0.0019) J
Tetrachloroethene		1.3	19	1.3	0.0058	0.0024	0.00086	ND (0.00045)	ND (0.00042)	0.0084	0.0088	ND (0.00047)	0.0007 J	ND (0.0006)	0.0011	0.00086	ND (0.0005)	ND (0.0019)	0.0083	0.0013
Toluene		0.7	100	0.7	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	0.001 J	ND (0.0012)	ND (0.0014)	ND (0.0013)	ND (0.001)	0.0031 J	0.00067 J	ND (0.00095)
trans-1,2-Dichloroethene		0.19	100	0.19	ND (0.002)	ND (0.0018)	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0019)	ND (0.0015)	ND (0.0014)	ND (0.0025)	ND (0.0018)	ND (0.0022)	ND (0.002)	ND (0.0015)	0.00066 J	ND (0.0016)	ND (0.0014)
trans-1,3-Dichloropropene trans-1,4-Dichloro-2-butene		NA NA	NA NA	NA NA	ND (0.0013) ND (0.0066)	ND (0.0012) ND (0.0062)	ND (0.00096) ND (0.0048)	ND (0.00089) ND (0.0045)	ND (0.00085) ND (0.0042)	ND (0.0013) ND (0.0063)	ND (0.001) ND (0.0052)	ND (0.00094) ND (0.0047)	ND (0.0017) ND (0.0085)	ND (0.0012) ND (0.006)	ND (0.0014) ND (0.0072)	ND (0.0013) ND (0.0067)	ND (0.001)	ND (0.0039)	ND (0.0011) ND (0.0055)	ND (0.00095) ND (0.0047) J
Trichloroethene		0.47	NA 21	0.47	0.014	0.0027	ND (0.0048)	ND (0.0045) ND (0.00045)	ND (0.0042) ND (0.00042)	0.0048	0.0065	ND (0.0047) ND (0.00047)	0.0091	0.0014	0.0055	0.0081	ND (0.005) ND (0.0005)	ND (0.019) ND (0.0019)	0.002	0.00069
Trichlorofluoromethane (CFC-11)		NA	NA	NA	ND (0.0052)	ND (0.005)	ND (0.00048)	ND (0.00043)	ND (0.0034)	0.0048 ND (0.005)	ND (0.0041)	ND (0.00047)	ND (0.0068)	0.0014 ND (0.0048) J	ND (0.0058)	ND (0.0053)	ND (0.0003)	ND (0.0019)	ND (0.0044)	ND (0.0038)
Vinyl acetate		NA.	NA NA	NA NA	ND (0.013)	ND (0.012)	ND (0.0096)	ND (0.0089)	ND (0.0085)	ND (0.013)	ND (0.01)	ND (0.0094)	ND (0.017)	ND (0.012) J	ND (0.014)	ND (0.013)	ND (0.004)	ND (0.039)	ND (0.011)	ND (0.0095) J
Vinyl chloride		0.02	0.9	0.02	ND (0.0013)	ND (0.0012)	ND (0.00096)	ND (0.00089)	ND (0.00085)	ND (0.0013)	ND (0.001)	ND (0.00094)	ND (0.0017) J	ND (0.0012)	ND (0.0014) J	ND (0.0013) J	ND (0.001) J	ND (0.0039) J	ND (0.0011)	ND (0.00095)
Xylene (Total)		1.6	100	0.26	ND (0.0013)	0.00054 J	ND (0.00096)	0.0026 J	0.0016 J	ND (0.0013)	0.0009 J	0.00028 J	ND (0.0017)	ND (0.0012)	ND (0.0014)	ND (0.0013)	0.0012 J	ND (0.0039)	ND (0.0011)	ND (0.00095)
Semi-Volatile Organic Compounds (mg/kg)																				
1,2,4,5-Tetrachlorobenzene		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
1,2,4-Trichlorobenzene		NA	NA	NA	ND (0.18)	ND (0.91)	-	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
1,2-Dichlorobenzene		1.1	100	1.1	ND (0.18)	ND (0.91)	-	ND (0.2)	ND (0.19)	ND (0.19) J	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
1,3-Dichlorobenzene		2.4	49	2.4	ND (0.18)	ND (0.91)	-	ND (0.2)	ND (0.19)	ND (0.19) J	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
1,4-Dichlorobenzene		1.8	13	1.8	ND (0.18)	ND (0.91)	-	ND (0.2)	ND (0.19)	ND (0.19) J	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
1,4-Dioxane		0.1	13	0.1	ND (0.028)	ND (0.14)	ND (0.14)	ND (0.029)	ND (0.029)	ND (0.028)	ND (0.14)	ND (0.029)	ND (0.028)	ND (0.028)	ND (0.03)	ND (0.029)	ND (0.029)	ND (0.2)	ND (0.13)	ND (0.028)
2,2'-oxybis(1-Chloropropane)		NA	NA	NA	ND (0.22)	ND (1.1)	ND (1.1)	ND (0.24)	ND (0.23)	ND (0.22)	ND (1.2)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.23)	ND (1.6)	ND (1.1)	ND (0.22)
2,4,5-Trichlorophenol		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
2,4,6-Trichlorophenol		NA	NA	NA	ND (0.11)	ND (0.55)	ND (0.55)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.58)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.8)	ND (0.54)	ND (0.11)
2,4-Dichlorophenol		NA	NA	NA	ND (0.16)	ND (0.82)	ND (0.83)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.88)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.18)	ND (1.2)	ND (0.8)	ND (0.16)
2,4-Dimethylphenol		NA	NA 	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
2,4-Dinitrophenol		NA	NA NA	NA	ND (0.88)	ND (4.4)	ND (4.4)	ND (0.94)	ND (0.92)	ND (0.9)	ND (4.7)	ND (0.93)	ND (0.89)	ND (0.89)	ND (0.95)	ND (0.93)	ND (0.94)	ND (6.4)	ND (4.3)	0.88 R
2,4-Dinitrotoluene 2.6-Dinitrotoluene		NA NA	NA NA	NA NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
2-Chloronaphthalene		NA NA	NA NA	NA NA	ND (0.18) ND (0.18)	ND (0.91) ND (0.91)	ND (0.92) ND (0.92)	ND (0.2) ND (0.2)	ND (0.19) ND (0.19)	ND (0.19) ND (0.19)	ND (0.97) ND (0.97)	ND (0.19) ND (0.19)	ND (0.19) ND (0.19)	ND (0.18) ND (0.18)	ND (0.2) ND (0.2)	ND (0.19) ND (0.19)	ND (0.2) ND (0.2)	ND (1.3) ND (1.3)	ND (0.89) ND (0.89)	ND (0.18) ND (0.18)
2-Chlorophenol		NA NA	NA NA	NA NA	ND (0.18)	ND (0.91) ND (0.91)	ND (0.92) ND (0.92)	ND (0.2)	ND (0.19) ND (0.19)	ND (0.19) ND (0.19) J	ND (0.97) ND (0.97)	ND (0.19) ND (0.19)	ND (0.19) ND (0.19)	ND (0.18) ND (0.18)	ND (0.2) ND (0.2)	ND (0.19) ND (0.19)	ND (0.2)	ND (1.3) ND (1.3)	ND (0.89)	ND (0.18)
2-Methylnaphthalene		NA NA	NA NA	NA NA	0.048 J	0.26 J	0.52 J	ND (0.24)	ND (0.13) ND (0.23)	0.029 J	ND (0.37)	ND (0.13) ND (0.23)	0.034 J	0.078 J	0.19 J	0.03 J	ND (0.2)	ND (1.5) ND (1.6)	ND (0.89)	ND (0.18)
2-Methylphenol (o-Cresol)		0.33	100	0.33	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.23) ND (0.19)	ND (0.19) J	ND (1.2) ND (0.97)	ND (0.23) ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.23)	ND (1.0)	ND (0.89)	ND (0.22)
2-Nitroaniline		NA NA	NA NA	NA NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
2-Nitrophenol		NA	NA	NA	ND (0.4)	ND (2)	ND (2)	ND (0.42)	ND (0.41)	ND (0.4)	ND (2.1)	ND (0.42)	ND (0.4)	ND (0.4)	ND (0.43)	ND (0.42)	ND (0.42)	ND (2.9)	ND (1.9)	ND (0.4)
3&4-Methylphenol		NA	NA	NA	ND (0.26)	ND (1.3)	ND (1.3)	ND (0.28)	ND (0.28)	ND (0.27)	ND (1.4)	ND (0.28)	ND (0.27)	ND (0.27)	0.054 J	ND (0.28)	ND (0.28)	2.3	ND (1.3)	ND (0.26)
3,3'-Dichlorobenzidine		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
3-Nitroaniline		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
4,6-Dinitro-2-methylphenol		NA	NA	NA	ND (0.48)	ND (2.4)	ND (2.4)	ND (0.51)	ND (0.5)	ND (0.49)	ND (2.5)	ND (0.5)	ND (0.48)	ND (0.48)	ND (0.51)	ND (0.5)	ND (0.51)	ND (3.4)	ND (2.3)	0.48 R
4-Bromophenyl phenyl ether (BDE-3)		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
4-Chloro-3-methylphenol		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
4-Chloroaniline		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
4-Chlorophenyl phenyl ether		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)
4-Nitroaniline		NA	NA	NA	ND (0.18)	ND (0.91)	ND (0.92)	ND (0.2)	ND (0.19)	ND (0.19)	ND (0.97)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.2)	ND (0.19)	ND (0.2)	ND (1.3)	ND (0.89)	ND (0.18)

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

BROOKLYN, NEW YORK FILE NO. 0206384

Action Level SB-3 SB-3 SB-3 **Location Name** Restricted Use NY Part 375 NY Part 375 SB-1 SB-1 SB-1 SB-1 SB-1 SB-2 SB-2 SB-2 SB-3 SB-3 SB-3 SB-4 SB-4 SB-1 0-0 5 SB-1 1-2 SB-1 5-7 SB-1 10-12 SB-1 12-15 SB-2 0-0 5 SB-2 5-7 SB-2 12-14 SB-3 0-0 5 SB-3 1-2 SB-3 5-7 DUP02 20230625 SB-3 9-11 SB-3 12-14 SB-4 0-0 5 SB-4 5-7 Sample Name Soil Cleanup Restricted Unrestricted Residential Use 06/21/2023 06/21/2023 06/21/2023 06/21/2023 06/21/2023 06/21/2023 06/25/2023 06/25/2023 06/25/2023 06/25/2023 06/21/2023 06/21/2023 Sample Date Objectives Use 06/21/2023 06/21/2023 06/25/2023 06/25/2023 L2336505-01 Soil Cleanup Soil Cleanup L2335535-05 L2335535-06 L2335535-07 12336505-04 L2335535-10 Lab Sample ID Protection of L2335535-01 L2335535-02 L2335535-03 L2335535-04 L2335535-08 L2336505-02 L2336505-03 L2336505-06 12336505-05 L2335535-09 Sample Depth (bgs) Groundwate Objectives Objectives 0 - 0.5 (ft) 1 - 2 (ft) 5 - 7 (ft) 10 - 12 (ft) 12 - 15 (ft) 0 - 0.5 (ft) 5 - 7 (ft) 12 - 14 (ft) 0 - 0.5 (ft) 1 - 2 (ft) 5 - 7 (ft) 5 - 7 (ft) 9 - 11 (ft) 12 - 14 (ft) 0 - 0.5 (ft) 5 - 7 (ft) Acenaphthene 100 20 0.11 J 0.81 17 0.15 J 0.044 J 0.077 J 0.1 J ND (0.15) 0.029 J 0.21 0.22 0.072 J 0.24 ND (1.1) 0.24 J ND (0.15) 107 ND (0.15) ND (0.15) ND (0.15) 0.084 J ND (0.16) ND (0.15) Acenaphthylene 100 100 0.15 0.27 J 0.34 J ND (0.16) 0.21 0.5 J 0.16 0.22 ND (1.1) 0.78 Acetophenone NΑ NΑ NA ND (0.18) ND (0.91) ND (0.92) ND (0.2) ND (0.19) ND (0.19) ND (0.97) ND (0.19) ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) ND (0.18) 1000 100 100 ND (0.12) ND (0.12) ND (0.8) ND (0.11) 0.3 ND (0.12) ND (0.11) 0.53 J 0.084 J 0.7 0.15 J Anthracene 1.5 4.4 0.35 0.46J1.1 enzo(a)anthracene 1.3 4.2 12 ND (0.12) ND (0.11) 1.2 2.4 ND (0.12) 0.44 3.8 1.4 J 0.66 J ND (0.12) ND (0.8) ND (0.11) 4.2 1.4 4.2 ND (0.16) ND (0.15) 2.6 ND (0.15) 0.48 3.8 1.5 J 0.71 J ND (0.16) ND (1.1) ND (0.15) Benzo(a)pyrene 22 12 1.1 Benzo(b)fluoranthene 1.7 1.4 3.2 4.2 1.8 J ND (0.11) 1.7 13 ND (0.12) ND (0.11) ND (0.12) 0.55 0.85 J ND (0.12) ND (0.8) 5.5 0.83 Benzo(g,h,i)perylene 1000 100 100 2.7 7 ND (0.16) ND (0.15) 0.82 2 ND (0.15) 0.3 2.5 0.92 J 0.45 JND (0.16) ND (1.1) 2.6 ND (0.15) 4.2 0.47 Benzo(k)fluoranthene 1.7 3.9 0.8 0.51 1.6 ND (0.12) ND (0.11) 1.2 ND (0.12) 0.17 1.2 0.47 J 0.25 J ND (0.12) ND (0.8) 1.3 ND (0.11) Benzoic acid NA NA NA ND (0.6) ND (3) ND (3) ND (0.64) ND (0.62) ND (0.61) ND (3.2) ND (0.62) ND (0.6) ND (0.6) ND (0.64) ND (0.62) ND (0.63) ND (4.3) ND (2.9) 0.59 R Benzyl Alcohol NΑ ND (0.18) ND (0.91) ND (0.92) ND (0.2) ND (0.19) ND (0.19) J ND (0.97) ND (0.19) ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) ND (0.18) Biphenyl NA ΝΔ NA ND (0.42) ND (2.1) 0.14 J ND (0.45) ND (0.44) ND (0.43) ND (2.2) ND (0.44) ND (0.42) ND (0.42) 0.051 J ND (0.44) ND (0.44) ND (3) ND (2) ND (0.42) ND (0.98) ND (0.99) ND (0.21) ND (0.21) ND (0.2) ND (0.21) ND (0.21) ND (0.21) ois(2-Chloroethoxy)methane NA NΑ NA ND (0.2) ND (0.21) ND (0.2) ND (0.2) ND (1.4) ND (0.96) ND (0.2) ND (1) ois(2-Chloroethyl)ether NA NA NA ND (0.16) ND (0.82) ND (0.83) ND (0.18) ND (0.17) ND (0.17) J ND (0.88) ND (0.17) ND (0.17) ND (0.17) ND (0.18) ND (0.17) ND (0.18) ND (1.2) ND (0.8) ND (0.16) ND (0.97) bis(2-Ethylhexyl)phthalate NA NA NA 0.23 0.33 J ND (0.92) ND (0.2) ND (0.19) 0.38 0.15 J ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) 0.15 J ND (0.91) ND (0.97) ND (0.19) ND (0.18) ND (0.18) Butyl benzylphthalate (BBP) NA NA NΑ 0.09 J ND (0.92) ND (0.2) ND (0.19) 0.06 J ND (0.19) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) NA 0 14 1 0 14 1 0.24 ND (0.18) `arbazole NΑ NA 071 1 ND (0.2) ND (0.19) 0.25 [ND (0 19) 0.045 I 0.34 I 0 071 I ND (0.2) ND (1 3) 0 41 I ND (0.8) Chrysene 3.9 1.2 4 11 ND (0.12) ND (0.11) 1.1 2.3 ND (0.12) 0.46 3.6 1.6 J 0.72 J ND (0.12) 3.8 ND (0.11) Dibenz(a,h)anthracene 1000 0.33 0.33 0.21 0.64 17 ND (0.12) ND (0.11) 0.18 0.42 J ND (0.12) 0.073 I 0.55 0.2 0.1 J ND (0.12) ND (0.8) 0.6 ND (0.11) Dibenzofuran 210 0.078 J 0.48 J 0.83 J ND (0.2) ND (0.19) 0.056 J 0.099 J ND (0.19) 0.023 J 0.11 J 0.26 J 0.039 J ND (0.2) ND (1.3) 0.2 J ND (0.18) Diethyl phthalate NΑ NA NA ND (0.18) ND (0.91) ND (0.92) ND (0.2) ND (0.19) ND (0.19) ND (0.97) ND (0.19) ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) ND (0.18) imethyl phthalate NA NA NA ND (0.18) ND (0.91) ND (0.92) ND (0.2) ND (0.19) ND (0.19) ND (0.97) ND (0.19) ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) ND (0.18) Di-n-butylphthalate (DBP) NA NA NA 0.18 ND (0.91) ND (0.92) ND (0.2) ND (0.19) 0.078 J ND (0.97) ND (0.19) ND (0.19) ND (0.18) 0.18 J ND (0.19) ND (0.2) ND (1.3) ND (0.89) ND (0.18) Di-n-octyl phthalate (DnOP) NΑ NΑ NA ND (0.18) ND (0.91) ND (0.92) ND (0.2) ND (0.19) ND (0.19) ND (0.97) ND (0.19) ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) ND (0.18) luoranthene 1000 100 100 2.6 9.3 ND (0.12) ND (0.11) 2.3 ND (0.12) 0.81 3.3 J 1.3 J ND (0.12) ND (0.8) 8.3 ND (0.11) 25 386 100 30 0.093 J 0.62 J 1.6 0.054 J ND (0.19) 0.079 J 0.11 J ND (0.19) 0.029 J 0.18 0.22 0.057 J 0.022 J ND (1.3) 0.28 J ND (0.18) luorene Iexachlorobenzene 3.2 1.2 0.33 ND (0.11) ND (0.55) ND (0.55) ND (0.12) ND (0.11) ND (0.11) ND (0.58) ND (0.12) ND (0.11) ND (0.11) ND (0.12) ND (0.12) ND (0.12) ND (0.8) ND (0.54) ND (0.11) ND (1.3) Hexachlorobutadiene NA NA NA ND (0.18) ND (0.91) ND (0.92) ND (0.2) ND (0.19) ND (0.19) ND (0.97) ND (0.19) ND (0.19) ND (0.18) ND (0.2) ND (0.19) ND (0.2) ND (0.89) ND (0.18) ND (0.53) J ND (0.55) J ND (0.53) J ND (0.56) J lexachlorocyclopentadiene NA ND (2.6) J ND (2.6) J ND (0.56). ND (0.55) J ND (0.54) ND (2.8) ND (0.53) J ND (0.56) J ND (0.55) ND (3.8) J ND (2.6) J 0.52 R ND (0.73) ND (0.15) Hexachloroethane NΑ NΑ NA ND (0.15) ND (0.73) ND (0.16) ND (0.15) ND (0.15) ND (0.78) ND (0.15) ND (0.15) ND (0.15) ND (0.16) ND (0.15) ND (0.16) ND (1.1) ND (0.71) ideno(1,2,3-cd)pyrene 8.2 0.5 0.5 ND (0.16) ND (0.15) ND (0.15) 0.34 0.49 J ND (0.16) ND (1.1) ND (0.15) sonhorone NΑ NΑ NA ND (0.16) ND (0.82) ND (0.83) ND (0.18) ND (0.17) ND (0.17) ND (0.88) ND (0.17) ND (0.17) ND (0.17) ND (0.18) ND (0.17) ND (0.18) ND (1.2) ND (0.8) ND (0.16) Naphthalene 12 100 12 0.067 J 0.74 J ND (0.2) ND (0.19) 0.078 J ND (0.19) 0.032 J 0.14 J 0.065 J ND (0.2) ND (1.3) ND (0.18) 0.53 J 0.19 J 0.56 J 0.16 J Nitrobenzene NΑ NΑ NA ND (0.16) ND (0.82) ND (0.83) ND (0.18) ND (0.17) ND (0.17) ND (0.88) ND (0.17) ND (0.17) ND (0.17) ND (0.18) ND (0.17) ND (0.18) ND (1.2) ND (0.8) ND (0.16) ND (0.91) ND (0.18) ND (0.18) NA NA NA ND (0.18) ND (0.92) ND (0.2) ND (0.19) ND (0.19) ND (0.97) ND (0.19) ND (0.19) ND (0.2) ND (0.19) ND (0.2) ND (1.3) ND (0.89) N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine NA ND (0.15) ND (0.73) ND (0.73) ND (0.16) ND (0.15) ND (0.15) ND (0.78) ND (0.15) ND (0.15) ND (0.15) ND (0.16) ND (0.15) ND (0.16) ND (1.1) ND (0.71) ND (0.15) NA NA ND (0.15) Pentachlorophenol 0.8 ND (0.15) ND (0.73) 0.54 J ND (0.16) ND (0.15) ND (0.15) ND (0.15) ND (0.16) ND (0.15) ND (0.16) ND (1.1) ND (0.15) 6.7 0.8 ND (0.15) 0.43 J0.53 J henanthrene 1000 100 100 1.4 0.057 J ND (0.11) 1.2 ND (0.12) 0.49 4.2 0.82 J ND (0.12) ND (0.8) 4.8 ND (0.11) 0.33 100 0.33 ND (0.18) ND (0.91) ND (0.92) ND (0.19) ND (0.97) ND (0.19) ND (0.18) ND (0.19) ND (0.18) Phenol ND (0.2) ND (0.19) ND (0.19) ND (0.2) ND (0.2) ND (1.3) ND (0.89) Pyrene 1000 100 100 ND (0.12) ND (0.11) ND (0.12) ND (0.12) ND (0.8) ND (0.11)

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL
558 SACKETT STREET
BROOKLYN, NEW YORK

FILE NO. 0206384

			Action Level		7															
	Location Name	Restricted Use	NY Part 375	NY Part 375	SB-1	SB-1	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3	SB-3	SB-3	SB-3	SB-4	SB-4
	Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-1_0-0.5	SB-1_1-2	SB-1_5-7	SB-1_10-12	SB-1_12-15	SB-2_0-0.5	SB-2_5-7	SB-2_12-14	SB-3_0-0.5	SB-3_1-2	SB-3_5-7	DUP02_20230625	SB-3_9-11	SB-3_12-14	SB-4_0-0.5	SB-4_5-7
	Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/21/2023	06/21/2023
	Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335535-01	L2335535-02	L2335535-03	L2335535-04	L2335535-05	L2335535-06	L2335535-07	L2335535-08	L2336505-01	L2336505-02	L2336505-03	L2336505-06	L2336505-04	L2336505-05	L2335535-09	L2335535-10
	Sample Depth (bgs)	Groundwater	Objectives	Objectives	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 15 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)
Inorganic Compounds (mg/kg)																				
Aluminum		NA	NA	NA	7240	10800	5110	9260	8930	7100	4860	6180	5440	5360	4660	4060	7520	15400	12300	6630
Antimony		NA	NA	NA	13.1 J	5.8 J	0.759 J	0.594 J	0.609 J	3.54 J	2.02 J	ND (4.54) J	0.389 J	1.23 J	6.15	3.61 J	ND (4.67)	ND (10.7)	9.79 J	0.397 J
Arsenic		16	16	13	17	12.8	8.59	3.7	7	19	8.26	2.07	6.18	7.16	25.5	16.7	2.67	17.9	19.3	2.65
Barium		820	400	350	292	342	230	11.2	8.6	306	116	4.82	106 J	231 J	481 J	276 J	28 J	23.1 J	156	71.5
Beryllium		47	72	7.2	2.41	9.55	0.434	0.4 J	0.384 J	1.54	0.634	0.305 J	0.325 J	0.312 J	0.348 J	0.288 J	0.348 J	0.873 J	11.8	0.403 J
Cadmium		7.5	4.3	2.5	3.67	1.68	0.474 J	ND (0.931)	ND (0.928)	0.938	1.5	ND (0.907)	0.319 J	0.603 J	1.97	1.32	ND (0.935)	0.375 J	1.52	0.111 J
Calcium		NA	NA	NA	48800 J	45100 J	5770 J	692 J	809 J	54700 J	54300 J	202 J	26600 J	22800	6740	8660	585	4240	34200 J	2010 J
Chromium		NA	NA	NA	59.4	73.8	15.7	15.3	16.2	24.6	27.2	12.4	17.3 J	19.1	34.7	21.2	13.9	36.3	95	11.2
Cobalt		NA 1 TO 2	NA	NA ==	15.1	39.4	5.76	3.67	5.52	10.6	6.44	3.72	6.1 J	5.13	9.18	7.29	5.35	13.9	50.1	3.43
Copper		1720	270	50	3080	929	47.6	7.12	7.18	182	113	5.19	27.5	46.3	218 J	101 J	8.66	16	1070	9
Iron		NA 450	NA 400	NA 63	36200	48400	11800	15200	13300	23100	21100	8360	10000	14200	22000 J	38800 J	10300	30000	88700	10800
Lead		450 NA	400	63 NA	1370 J	1570 J 4700 J	331 J	6.03 J 1820 J	6.79 J	692 J 8230 J	1330 J 8280 J	3.48 J	569 6000	1220 4220	2080 1730	1990 1520	29.6 1890	16.7 8020	1870 J 3930 J	40.3 J 1670 J
Manganese		2000	NA 3000	1600	5230 J 516	643	3050 J	147	1710 J 168	8230 J 449	305	1620 J 45.4		292	423 J		71.8	198	853	1570 3
Manganese Mercury		0.73	2000 0.81	0.18	1.89	2.21	320 1.13	ND (0.084)	ND (0.092)	0.688	1.05	45.4 ND (0.087)	210 7.94 J	12.2	5.77	216 J 4.01	71.8 ND (0.081)	ND (0.22)	4.68	ND (0.085)
Nickel		130	310	30	167	356	22.8	9.98	9.81	64.6	38.2	10.2	20.1	16.9	23.2	20.4	13.2	36.6	423	11.9
Potassium		NA	NA	NA	1330	1310	883	624	666	1330	1230	471	863	747	565	478	416	2510	1190	381
Selenium		4	180	3.9	2.29	1.99	1.42 J	ND (1.86)	0.284 J	0.841 J	1.13 J	ND (1.81)	0.301 J	0.733 J	4.67 J	2.07 J	ND (1.87)	1.2 J	3.12	0.561 J
Silver		8.3	180	2	10.3	0.535	ND (0.433)	ND (0.465)	ND (0.464)	0.33 J	0.42 J	ND (0.454)	ND (0.43)	0.799	0.845	0.552	ND (0.467)	ND (1.07)	ND (0.429)	ND (0.434)
Sodium		NA	NA	NA	729	1070	552	118 J	122 J	647	586	130 J	363 J	318	415	357	85 J	1160	1420	137 J
Thallium		NA	NA	NA	0.985 J	1.18 J	0.409 J	0.449 J	0.482 J	0.743 J	0.572 J	ND (1.81)	0.364 J	0.31 J	0.353 J	0.732 J	0.396 J	0.731 J	1.6 J	0.337 J
Vanadium		NA	NA	NA	39.3	34.3	17.9	20.4	22.4	22.2	21.9	15.6	19.7	19.3	21.9	17.3	19.1	55.5	37.7	15.1
Zinc		2480	10000	109	2610 J	3880 J	230 J	21.5 J	22.9 J	741 J	750 J	15.9 J	305 J	360	880	839	26.4	80.7	6200 J	51.4 J
PCBs (mg/kg)																				
Aroclor-1016 (PCB-1016)		NA	NA	NA	ND (0.053)	ND (0.052)	ND (0.0547)	ND (0.0573)	ND (0.056)	ND (0.0556)	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Aroclor-1221 (PCB-1221)		NA NA	NA	NA.	ND (0.053)	ND (0.052)	ND (0.0547)	ND (0.0573)	ND (0.056)	ND (0.0556)	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Aroclor-1232 (PCB-1232)		NA	NA	NA	ND (0.053)	ND (0.052)	ND (0.0547)	ND (0.0573)	ND (0.056)	ND (0.0556)	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Aroclor-1242 (PCB-1242)		NA	NA	NA	ND (0.053)	ND (0.052)	ND (0.0547)	ND (0.0573)	ND (0.056)	ND (0.0556)	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Aroclor-1248 (PCB-1248)		NA	NA	NA	0.105	0.719	ND (0.0547)	ND (0.0573)	ND (0.056)	ND (0.0556)	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	2.2	ND (0.0531)
Aroclor-1254 (PCB-1254)		NA	NA	NA	0.127	0.718	0.0602	ND (0.0573)	ND (0.056)	0.0357 J	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	0.906	ND (0.0531)
Aroclor-1260 (PCB-1260)		NA	NA	NA	0.123	ND (0.052)	0.0306 J	ND (0.0573)	ND (0.056)	0.0287 J	0.0233 J	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Aroclor-1262 (PCB-1262)		NA	NA	NA	ND (0.053)	ND (0.052)	ND (0.0547)	ND (0.0573)	ND (0.056)	ND (0.0556)	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Aroclor-1268 (PCB-1268)		NA	NA	NA	0.0552	ND (0.052)	0.0114 J	ND (0.0573)	ND (0.056)	0.00877 J	ND (0.0583)	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	ND (0.256)	ND (0.0531)
Polychlorinated biphenyls (PCBs)		3.2	1	0.1	0.41	1.44	0.102 J	ND (0.0573)	ND (0.056)	0.0732 J	0.0233 J	ND (0.0563)	ND (0.0536)	ND (0.0552)	ND (0.0575)	ND (0.0576)	ND (0.0542)	ND (0.136)	3.11	ND (0.0531)
Other																				
Total Solids (%)		NA	NA	NA	89.5	90.9	90	84.6	84.8	88.7	84.6	85.2	89.3	88.6	83.7	85.4	85.1	35.8	91.2	89.4
Pesticides (mg/kg)																				
4,4'-DDD		14	13	0.0033	0.00305	0.00941	ND (0.00175)	ND (0.00179)	ND (0.00179)	0.000843 J	0.00111 J	ND (0.00182)	ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)	ND (0.00184)	ND (0.00428)	0.127	ND (0.00178)
4,4'-DDE		17	8.9	0.0033	0.00647 J	0.016	0.00618 J+	ND (0.00173) ND (0.00179)	ND (0.00179)	0.00132 J	0.00209	ND (0.00182)	ND (0.00177) ND (0.00177)	ND (0.00175)		ND (0.00183)		ND (0.00428)	0.0466	ND (0.00178)
4,4'-DDT		136	7.9	0.0033	0.0291	0.112	0.0743 J+	ND (0.00179)	ND (0.00173) ND (0.00179)	0.0106	0.0222	ND (0.00182)	ND (0.00177) ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)		ND (0.00428)	0.279	ND (0.00178)
Aldrin		0.19	0.097	0.005	ND (0.00177)	ND (0.00168)	ND (0.00175)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00182)	ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)		ND (0.00428)	ND (0.00173)	ND (0.00178)
alpha-BHC		0.02	0.48	0.02	ND (0.000738)	ND (0.0007)	ND (0.000728)	ND (0.000746)	ND (0.000747)	ND (0.000746)	ND (0.000745)	ND (0.00076)	ND (0.000739)	ND (0.000729)	ND (0.000767)	ND (0.000764)	ND (0.000766)		ND (0.000719)	ND (0.000743)
alpha-Chlordane (cis)		2.9	4.2	0.094	0.00501	0.00697	0.00565 J+	ND (0.00224)	ND (0.00224)	0.00292	0.00516	ND (0.00228)	ND (0.00222)	ND (0.00219)	ND (0.0023)	ND (0.00229)	ND (0.0023)	ND (0.00535)	0.0142	ND (0.00223)
beta-BHC		0.09	0.36	0.036	ND (0.00177)	ND (0.00168)	ND (0.00175)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00182)	ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)	ND (0.00184)	ND (0.00428)	ND (0.00173)	ND (0.00178)
Chlordane		NA	NA	NA	ND (0.0148)	ND (0.014)	0.155 J+	ND (0.0149)	ND (0.0149)	ND (0.0149)	ND (0.0149)	ND (0.0152)	ND (0.0148)	ND (0.0146)	ND (0.0153)	ND (0.0153)	ND (0.0153)	ND (0.0357)	ND (0.0144)	ND (0.0149)
delta-BHC		0.25	100	0.04	ND (0.00177)	ND (0.00168)	ND (0.00175)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00182)	ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)	ND (0.00184)	ND (0.00428)	ND (0.00173)	ND (0.00178)
Dieldrin		0.1	0.2	0.005	ND (0.00111)	ND (0.00105)	ND (0.00109)	ND (0.00112)	ND (0.00112)	ND (0.00112)	ND (0.00112)	ND (0.00114)	ND (0.00111)	ND (0.00109)	ND (0.00115)	ND (0.00114)	ND (0.00115)		ND (0.00108)	ND (0.00111)
Endosulfan I		102	24	2.4	ND (0.00177)	ND (0.00168)	ND (0.00175)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00182)	ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)		ND (0.00428)	ND (0.00173)	ND (0.00178)
Endosulfan II		102	24	2.4	ND (0.00177)	ND (0.00168)	ND (0.00175)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00179)	ND (0.00182)	ND (0.00177)	ND (0.00175)	ND (0.00184)	ND (0.00183)		ND (0.00428)	ND (0.00173)	ND (0.00178)
Endosulfan sulfate		1000	24	2.4	ND (0.000738)	ND (0.0007)	ND (0.000728)		ND (0.000747)		ND (0.000745)	ND (0.00076)	ND (0.000739)	ND (0.000729)	ND (0.000767)	ND (0.000764)			ND (0.000719)	ND (0.000743)
Endrin Endrin aldebyde		0.06	11	0.014	ND (0.000738)	ND (0.0007)	ND (0.000728)	ND (0.000746)	ND (0.000747)	ND (0.000746)	ND (0.000745)	ND (0.00076)	ND (0.000739)	ND (0.000729)	ND (0.000767)	ND (0.000764)	ND (0.000766)		ND (0.000719)	ND (0.000743)
Endrin aldehyde		NA NA	NA NA	NA NA	ND (0.00222)	ND (0.0021)	ND (0.00218)	ND (0.00224)	ND (0.00224)	ND (0.00224)	ND (0.00224)	ND (0.00228)	ND (0.00222)	ND (0.00219)	ND (0.0023)	ND (0.00229)	ND (0.0023)	ND (0.00535)	ND (0.00216)	ND (0.00223)
Endrin ketone gamma-BHC (Lindane)		0.1	NA 1.3	NA 0.1	ND (0.00177) ND (0.000738)	ND (0.00168)	ND (0.00175)	ND (0.00179) ND (0.000746)	ND (0.00179) ND (0.000747)	ND (0.00179) ND (0.000746)	ND (0.00179) ND (0.000745)	ND (0.00182) ND (0.00076)	ND (0.00177) ND (0.000739)	ND (0.00175) ND (0.000729)	ND (0.00184) ND (0.000767)	ND (0.00183) ND (0.000764)	ND (0.00184) ND (0.000766)	ND (0.00428)	ND (0.00173) ND (0.000719)	ND (0.00178) ND (0.000743)
gamma-BHC (Lindane) gamma-Chlordane (trans)		0.1 NA	1.3 NA	NA	0.00491	ND (0.0007) 0.00624 J	ND (0.000728) 0.00822 J+	ND (0.000746) ND (0.00224)	ND (0.000747) ND (0.00224)	0.00267	0.00724	ND (0.00076) ND (0.00228)	ND (0.000739) ND (0.00222)	ND (0.000729) ND (0.00219)	ND (0.000767) ND (0.0023)	ND (0.00229)	ND (0.000766) ND (0.0023)	ND (0.00178) ND (0.00535)	0.0118 J	ND (0.000743)
Heptachlor		0.38	2.1	0.042	ND (0.000886)	ND (0.00084)	ND (0.000874)	ND (0.00224) ND (0.000895)	ND (0.00224) ND (0.000897)	ND (0.000895)	ND (0.000894)	ND (0.00228) ND (0.000912)	ND (0.00222) ND (0.000886)	ND (0.00219) ND (0.000875)	ND (0.0023) ND (0.00092)	ND (0.00229) ND (0.000917)			ND (0.000863)	ND (0.00223)
Heptachlor epoxide		NA	NA	NA	ND (0.00332)	ND (0.00315)	ND (0.000874)	ND (0.000833)	ND (0.000837)	ND (0.000893)	ND (0.000894)	ND (0.000312)	ND (0.00332)	ND (0.000873)	ND (0.00345)	ND (0.00344)	ND (0.000313)		ND (0.000803)	ND (0.00334)
Methoxychlor		NA NA	NA NA	NA NA	ND (0.00332)	ND (0.00315)	ND (0.00328)	ND (0.00336)	ND (0.00336)	ND (0.00336)	ND (0.00335)	ND (0.00342)	ND (0.00332)	ND (0.00328)	ND (0.00345)	ND (0.00344)	ND (0.00344)	ND (0.00803)	ND (0.00324)	ND (0.00334)
Toxaphene		NA NA	NA NA	NA.	ND (0.0332)	ND (0.0315)	ND (0.0328)	ND (0.0336)	ND (0.0336)	ND (0.0336)	ND (0.0335)	ND (0.0342)	ND (0.0332)	ND (0.0328)	ND (0.0345)	ND (0.0344)	ND (0.0344)	ND (0.0803)	ND (0.0324)	ND (0.0334)
- spriene					(3.0002)	(2.0020)	(3.0020)	(5.0000)	(2.0000)	(2.0000)	(5.0000)	(5.00.12)	(2.0002)	(2.0020)	(5.00.0)	(5.00)	(5.00 . 1)	(5.0000)	()	1.2 (5.000 /)

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

558 SACKETT STREET BROOKLYN, NEW YORK

FILE NO. 0206384

				-															
		Action Level																	
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-1	SB-1	SB-1	SB-1	SB-1	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3	SB-3	SB-3	SB-3	SB-4	SB-4
Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-1_0-0.5	SB-1_1-2	SB-1_5-7	SB-1_10-12	SB-1_12-15	SB-2_0-0.5	SB-2_5-7	SB-2_12-14	SB-3_0-0.5	SB-3_1-2	SB-3_5-7	DUP02_20230625	SB-3_9-11	SB-3_12-14	SB-4_0-0.5	SB-4_5-7
Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/25/2023	06/21/2023	06/21/2023
Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335535-01	L2335535-02	L2335535-03	L2335535-04	L2335535-05	L2335535-06	L2335535-07	L2335535-08	L2336505-01	L2336505-02	L2336505-03	L2336505-06	L2336505-04	L2336505-05	L2335535-09	L2335535-10
Sample Depth (bgs)	Groundwater	Objectives	Objectives	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 15 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)
PFAS (ng/g)																			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	NA	ND (0.792)	ND (0.794)	ND (0.789)	ND (0.774)	ND (0.794)	ND (0.794)	ND (0.774)	ND (0.794)	ND (0.76)	ND (0.8)	ND (0.791)	ND (0.786)	ND (0.813)	ND (1.93)	ND (0.787)	ND (0.795)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	NA	ND (0.792)	ND (0.794) J	ND (0.789)	ND (0.774)	ND (0.794)	ND (0.794)	ND (0.774) J	ND (0.794)	ND (0.76)	ND (0.8)	ND (0.791)	ND (0.786)	ND (0.813)	ND (1.93) J	ND (0.787) J	ND (0.795)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorobutanesulfonic acid (PFBS)	NA	NA	NA	ND (0.198)	0.095 J	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	0.085 J	ND (0.198)	ND (0.19)	0.128 J	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	0.087 J	ND (0.199)
Perfluorobutanoic acid (PFBA)	NA	NA	NA	ND (0.792)	ND (0.794)	ND (0.789)	ND (0.774)	ND (0.794)	ND (0.794)	ND (0.774)	ND (0.794)	0.106 J	0.2 J	ND (0.791)	0.071 J	ND (0.813)	ND (1.93)	ND (0.787)	ND (0.795)
Perfluorodecanesulfonic acid (PFDS)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorodecanoic acid (PFDA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorododecanoic acid (PFDoDA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluoroheptanesulfonic acid (PFHpS)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluoroheptanoic acid (PFHpA)	NA	NA	NA	0.024 J	0.024 J	ND (0.197)	ND (0.193)	ND (0.198)	0.032 J	0.093 J	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	0.032 J	ND (0.199)
Perfluorohexanesulfonic acid (PFHxS)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorohexanoic acid (PFHxA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorononanoic acid (PFNA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	0.093 J	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	0.102 J	ND (0.199)
Perfluorooctane sulfonamide (PFOSA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorooctanesulfonic acid (PFOS)	1	44	0.88	0.238	0.5	0.079 J	ND (0.193)	ND (0.198)	0.127 J	1.09	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	1.02	ND (0.199)
Perfluorooctanoic acid (PFOA)	0.8	33	0.66	0.198	0.389	0.11 J	ND (0.193)	ND (0.198)	0.318	1.04	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	0.496	ND (0.199)
Perfluoropentanoic acid (PFPeA)	NA	NA	NA	ND (0.396)	ND (0.397)	ND (0.395)	ND (0.387)	ND (0.397)	ND (0.397)	ND (0.387)	ND (0.397)	0.213 J	0.392 J	ND (0.396)	ND (0.393)	ND (0.407)	ND (0.963)	ND (0.394)	ND (0.397)
Perfluorotetradecanoic acid (PFTeDA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluorotridecanoic acid (PFTrDA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
Perfluoroundecanoic acid (PFUnDA)	NA	NA	NA	ND (0.198)	ND (0.198)	ND (0.197)	ND (0.193)	ND (0.198)	ND (0.198)	ND (0.193)	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	ND (0.197)	ND (0.199)
US EPA PFAS (PFOS + PFOA)	NA	NA	NA	0.436	0.889	0.189 J	ND (0.193)	ND (0.198)	0.445 J	2.13	ND (0.198)	ND (0.19)	ND (0.2)	ND (0.198)	ND (0.196)	ND (0.203)	ND (0.482)	1.52	ND (0.199)

ABBREVIATIONS AND NOTES:

mg/kg: milligram per kilogram ng/g: nanogram per gram

-: Not Analyzed

bgs: below ground surface

ft: feet

J: Value is estimated.

J+: Value is estimated, high bias

J-: Value is estimated, low bias

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

R: Rejected

- For test methods used, see the laboratory data sheets.

- Soil analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and

Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (SCO), Restricted-Use Residential SCOs, and Protection of Groundwater SCO's.

- **Bold italic** values indicate an exceedance of the Protection of Groundwater Criteria.

- Grey shading indicates an exceedance of the Unrestricted Use Soil Cleanup Objectives.

- Yellow shading indicates an exceedance of the Restricted Use Residential Soil Cleanup Objectives.

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

		Action Level		Ī													
Location Nam	e Restricted Use	NY Part 375	NY Part 375	SB-4	SB-4	SB-5	SB-5	SB-5	SB-5	SB-6	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7	SB-7
Sample Nam	e Soil Cleanup	Restricted	Unrestricted	SB-4_8-10	SB-4_12-14	SB-5_0-0.5	SB-5_5-7	DUP01_20230621	SB-5_12-14	SB-6_0-0.5	SB-6_5-7	SB-6_10-12	SB-6_12-14	SB-7_0-0.5	SB-7_1-2	SB-7_5-7	SB-7_9-11
Sample Dat	e Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/22/2023	06/22/2023	06/22/2023	06/22/2023
Lab Sample I	Protection of	Soil Cleanup	Soil Cleanup	L2335535-11	L2335535-12	L2335535-13	L2335535-14	L2335535-20	L2335535-15	L2335535-16	L2335535-17	L2335535-18	L2335535-19	L2335921-01	L2335921-02	L2335921-03	L2335921-04
Sample Depth (bgs) Groundwater	Objectives	Objectives	8 - 10 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)
Volatile Organic Compounds (mg/kg)																	
1,1,1,2-Tetrachloroethane	NA	NA	NA	ND (0.00046)	ND (0.00046)	ND (0.0009)	ND (0.00055)	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
1,1,1-Trichloroethane	0.68	100	0.68	ND (0.00046)	ND (0.00046)	ND (0.0009)	ND (0.00055) J	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
1,1,2,2-Tetrachloroethane	NA	NA	NA	ND (0.00046)	ND (0.00046)	ND (0.0009)	ND (0.00055)	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
1,1,2-Trichloroethane	NA	NA	NA	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
1,1-Dichloroethane	0.27	26	0.27	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011) J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
1,1-Dichloroethene	0.33	100	0.33	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011) J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
1,1-Dichloropropene	NA	NA	NA	ND (0.00046)	ND (0.00046)	ND (0.0009)	ND (0.00055) J	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
1,2,3-Trichlorobenzene	NA NA	NA NA	NA NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,2,3-Trichloropropane	NA NA	NA NA	NA NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,2,4,5-Tetramethylbenzene	NA NA	NA NA	NA NA	1.7	ND (0.0018)	ND (0.0036)	0.0018 J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	51	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,2,4-Trichlorobenzene	NA NA	NA NA	NA NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,2,4-Trimethylbenzene	3.6	52	3.6	0.0012 J	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002) ND (0.002)	0.00024)	ND (0.0017) ND (0.0017)	360	0.001 J	ND (0.0019)	ND (0.0022) ND (0.0022)	ND (0.002) ND (0.002)	ND (0.0017)
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	ND (0.0027)	ND (0.0018) ND (0.0027)	ND (0.0054)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0035)	ND (0.0017)	ND (1.7)	ND (0.003)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,2-Dibromoethane (Ethylene Dibromide)	NA NA	NA NA	NA NA	ND (0.0027)	ND (0.0027)	ND (0.0034)	ND (0.0011)	ND (0.0023)	ND (0.00099)	ND (0.0033)	ND (0.0020)	ND (0.57)	ND (0.00099)	ND (0.0025)	ND (0.0032)	ND (0.003)	ND (0.0023)
1,2-Dichlorobenzene	1.1	100	1.1	ND (0.00091)	ND (0.00092)	ND (0.0018) ND (0.0036)	ND (0.0011) ND (0.0022)	ND (0.00084)	ND (0.00099)	ND (0.0012) ND (0.0024)	ND (0.00087)	ND (0.37) ND (1.1)	ND (0.00033)	ND (0.00098)	ND (0.0011) ND (0.0022)	ND (0.001) ND (0.002)	ND (0.00084)
1,2-Dichloroethane	0.02	3.1	0.02	ND (0.0018)	ND (0.0018) ND (0.00092)	ND (0.0030) ND (0.0018)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1) ND (0.57)	ND (0.002)	ND (0.0019)	ND (0.0022) ND (0.0011)	0.00032 J	ND (0.0017)
1,2-Dichloroethene (total)	NA	NA	NA	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011) 3	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57) ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011) ND (0.0011)	ND (0.001)	ND (0.00084)
1,2-Dichloropropane	NA NA	NA NA	NA NA	ND (0.00091)	ND (0.00092) ND (0.00092)	ND (0.0018) ND (0.0018)	ND (0.0011) ND (0.0011) J	ND (0.00084)	ND (0.00099)	ND (0.0012) ND (0.0012)	ND (0.00087)	ND (0.57) ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011) ND (0.0011)	ND (0.001) ND (0.001)	ND (0.00084)
1,3,5-Trimethylbenzene		52	8.4	ND (0.00091)	ND (0.00092)	ND (0.0018) ND (0.0036)	ND (0.0011) 3 ND (0.0022)	ND (0.00084)	ND (0.00099)	0.00012)	ND (0.00087)	87	0.00054 J	ND (0.00098)	ND (0.0011) ND (0.0022)	ND (0.001) ND (0.002)	ND (0.00084)
1,3-Dichlorobenzene	8.4 2.4	49	2.4			ND (0.0036)	ND (0.0022)					ND (1.1)	ND (0.002)	ND (0.0019)			
1 '	NA	NA	NA	ND (0.0018)	ND (0.0018)			ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)				ND (0.0022)	ND (0.002)	ND (0.0017)
1,3-Dichloropropane	NA NA	NA NA	NA NA	ND (0.0018) ND (0.00046)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017) ND (0.00042)
1,3-Dichloropropene 1,4-Dichlorobenzene	1.8	13	1.8	` ,	ND (0.00046)	ND (0.0009)	ND (0.00055)	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	` '
	_	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036) ND (0.0036)	ND (0.0022) 0.00087 J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017) ND (0.0017)	ND (1.1) 20	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,4-Diethylbenzene	NA 0.1	13		0.23	ND (0.0018)	, ,		ND (0.0017)	ND (0.002)	ND (0.0024)		20 ND (46) J	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
1,4-Dioxane			0.1	ND (0.073) J	ND (0.073)	ND (0.14)	ND (0.087) J	ND (0.067)	ND (0.079)	ND (0.094)	ND (0.07)	. ,	ND (0.079)	ND (0.077)	ND (0.087)	ND (0.081)	ND (0.067)
2,2-Dichloropropane	NA 0.13	NA 100	NA 0.13	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022) J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
2-Butanone (Methyl Ethyl Ketone)	0.12	100	0.12	ND (0.0091)	ND (0.0092)	ND (0.018)	0.0089 J-	0.0034 J	0.0033 J	ND (0.012)	ND (0.0087)	ND (5.7)	0.0035 J	ND (0.0096)	ND (0.011)	0.0057 J	ND (0.0084)
2-Chlorotoluene	NA	NA NA	NA NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
2-Hexanone (Methyl Butyl Ketone)	NA 11	NA 100	NA 11	ND (0.0091) J	ND (0.0092)	ND (0.018)	ND (0.011)	ND (0.0084)	ND (0.0099)	ND (0.012)	ND (0.0087)	ND (5.7) J	ND (0.0099)	ND (0.0096)	ND (0.011)	ND (0.01)	ND (0.0084)
2-Phenylbutane (sec-Butylbenzene)	11	100	11	0.2	ND (0.00092)	ND (0.0018)	0.00093 J	ND (0.00084)	0.00015 J	ND (0.0012)	ND (0.00087)	16	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
4-Chlorotoluene	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	100	0.00061 J	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA 0.05	NA 100	NA 2.25	ND (0.0091)	ND (0.0092)	ND (0.018)	ND (0.011) J	ND (0.0084)	ND (0.0099)	ND (0.012)	ND (0.0087)	ND (5.7)	ND (0.0099)	ND (0.0096)	ND (0.011)	ND (0.01)	ND (0.0084)
Acetone	0.05	100	0.05	ND (0.0091)	ND (0.0092)	0.033 J	0.088 J	0.039 J	0.042 J	ND (0.012)	0.012 J	ND (5.7)	0.026 J	0.0054 J	0.0062 J	0.035	0.0046 J
Acrylonitrile	NA 0.06	NA 1.0	NA 2.25	ND (0.0036)	ND (0.0037)	ND (0.0072)	ND (0.0044) J	ND (0.0033)	ND (0.0039)	ND (0.0047)	ND (0.0035)	ND (2.3)	ND (0.004)	ND (0.0038)	ND (0.0043)	ND (0.004)	ND (0.0034)
Benzene	0.06	4.8	0.06	0.0018	ND (0.00046)	0.00038 J	0.00029 J-	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	0.00056	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
Bromobenzene	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Bromodichloromethane	NA	NA	NA	ND (0.00046)	ND (0.00046)	ND (0.0009)	ND (0.00055) J	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	0.00015 J	0.0001 J
Bromoform	NA	NA	NA	ND (0.0036)	ND (0.0037)	ND (0.0072)	ND (0.0044)	ND (0.0033)	ND (0.0039)	ND (0.0047)	ND (0.0035)	ND (2.3)	ND (0.004)	ND (0.0038)	ND (0.0043)	ND (0.004)	ND (0.0034)
Bromomethane (Methyl Bromide)	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022) J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Carbon disulfide	NA	NA	NA		ND (0.0092)	ND (0.018)	ND (0.011) J	ND (0.0084)	ND (0.0099)	ND (0.012)	ND (0.0087)	ND (5.7)	ND (0.0099)	ND (0.0096)	ND (0.011)	ND (0.01)	ND (0.0084)
Carbon tetrachloride	0.76	2.4	0.76		ND (0.00092)		ND (0.0011) J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
Chlorobenzene	1.1	100	1.1		ND (0.00046)		ND (0.00055)	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
Chlorobromomethane	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Chloroethane	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022) J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Chloroform (Trichloromethane)	0.37	49	0.37	ND (0.0014)	ND (0.0014)	ND (0.0027)	ND (0.0016) J	ND (0.0012)	ND (0.0015)	ND (0.0018)	ND (0.0013)	ND (0.86)	ND (0.0015)	ND (0.0014)	ND (0.0016)	0.002	0.0016
Chloromethane (Methyl Chloride)	NA	NA	NA	ND (0.0036)	ND (0.0037)	ND (0.0072)	ND (0.0044) J	ND (0.0033)	ND (0.0039)	ND (0.0047)	ND (0.0035)	ND (2.3)	ND (0.004)	ND (0.0038)	ND (0.0043)	ND (0.004)	ND (0.0034)
cis-1,2-Dichloroethene	0.25	100	0.25	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011) J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
cis-1,3-Dichloropropene	NA	NA	NA	, ,	ND (0.00046)	ND (0.0009)	ND (0.00055) J	ND (0.00042)	ND (0.00049)	ND (0.00059)	ND (0.00044)	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	ND (0.0005)	ND (0.00042)
Cymene (p-Isopropyltoluene)	NA	NA	NA	0.0009 J	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	5.6	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
Dibromochloromethane	NA	NA	NA	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL
558 SACKETT STREET
BROOKLYN, NEW YORK

			Action Level		Ī													
	Location Name	Restricted Use	NY Part 375	NY Part 375	SB-4	SB-4	SB-5	SB-5	SB-5	SB-5	SB-6	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7	SB-7
	Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-4 8-10	SB-4_12-14	SB-5 0-0.5	SB-5_5-7	DUP01 20230621	SB-5 12-14	SB-6_0-0.5	SB-6 5-7	SB-6 10-12	SB-6 12-14	SB-7 0-0.5	SB-7 1-2	SB-7 5-7	SB-7 9-11
	Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/22/2023	06/22/2023	06/22/2023	06/22/2023
	Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335535-11	L2335535-12	L2335535-13	L2335535-14	L2335535-20	L2335535-15	L2335535-16	L2335535-17	L2335535-18	L2335535-19	L2335921-01	L2335921-02	L2335921-03	L2335921-04
	Sample Depth (bgs)	Groundwater	Objectives	Objectives	8 - 10 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)
Dibromomethane		NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022) J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Dichlorodifluoromethane (CFC-12)		NA	NA	NA	ND (0.0091)	ND (0.0092)	ND (0.018)	ND (0.011) J	ND (0.0084)	ND (0.0099)	ND (0.012)	ND (0.0087)	ND (5.7)	ND (0.0099)	ND (0.0096)	ND (0.011)	ND (0.01)	ND (0.0084)
Ethyl Ether		NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022) J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Ethylbenzene		1	41	1	0.0024	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	0.00021 J	0.00013 J	54	0.00082 J	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
Hexachlorobutadiene		NA	NA	NA	ND (0.0036)	ND (0.0037)	ND (0.0072)	ND (0.0044)	ND (0.0033)	ND (0.0039)	ND (0.0047)	ND (0.0035)	ND (2.3)	ND (0.004)	ND (0.0038)	ND (0.0043)	ND (0.004)	ND (0.0034)
Isopropylbenzene (Cumene)		NA	NA	NA	0.92	ND (0.00092)	ND (0.0018)	0.001 J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	22	0.00017 J	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
m,p-Xylenes		NA	NA	NA	0.00077 J	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	130	0.0026	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Methyl Tert Butyl Ether (MTBE)		0.93	100	0.93	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022) J	ND (0.0017)	ND (0.002)	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Methylene chloride (Dichloromethane)		0.05	100	0.05	ND (0.0046)	ND (0.0046)	ND (0.009)	ND (0.0055) J	ND (0.0042)	ND (0.0049)	ND (0.0059)	ND (0.0044)	ND (2.9)	ND (0.005)	ND (0.0048)	ND (0.0054)	ND (0.005)	ND (0.0042)
Naphthalene		12	100	12	0.0048	ND (0.0037)	0.0057 J	0.0092	ND (0.0033)	ND (0.0039)	0.0073	0.0045	24	ND (0.004)	ND (0.0038)	ND (0.0043)	0.00087 J	ND (0.0034)
n-Butylbenzene		12	100	12	0.035	ND (0.00092)	ND (0.0018)	0.00083 J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	34	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
n-Propylbenzene		3.9	100	3.9	1.7	ND (0.00092)	ND (0.0018)	0.0038	ND (0.00084)	ND (0.00099)	0.00025 J	ND (0.00087)	100	0.00036 J	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
o-Xylene		NA	NA	NA	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	4.4	0.00077 J	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
Styrene		NA	NA	NA	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
tert-Butylbenzene		5.9	100	5.9	0.0013 J	ND (0.0018)	ND (0.0036)	ND (0.0022)	0.00015 J	0.00022 J	ND (0.0024)	ND (0.0017)	ND (1.1)	ND (0.002)	ND (0.0019)	ND (0.0022)	ND (0.002)	ND (0.0017)
Tetrachloroethene		1.3	19	1.3	ND (0.00046)	0.0017	0.0075	0.0044	ND (0.00042)	ND (0.00049)	0.064	0.036	ND (0.29)	0.002	0.0007	0.0027	0.0021	0.00059
Toluene		0.7	100	0.7	0.00085 J	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	0.0024	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
trans-1,2-Dichloroethene		0.19	100	0.19	ND (0.0014)	ND (0.0014)	ND (0.0027)	ND (0.0016) J	ND (0.0012)	ND (0.0015)	ND (0.0018)	ND (0.0013)	ND (0.86)	ND (0.0015)	ND (0.0014)	ND (0.0016)	ND (0.0015)	ND (0.0013)
trans-1,3-Dichloropropene		NA	NA	NA	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
trans-1,4-Dichloro-2-butene		NA	NA	NA	ND (0.0046)	ND (0.0046)	ND (0.009)	ND (0.0055)	ND (0.0042)	ND (0.0049)	ND (0.0059)	ND (0.0044)	ND (2.9)	ND (0.005)	ND (0.0048)	ND (0.0054)	ND (0.005)	ND (0.0042)
Trichloroethene		0.47	21	0.47	ND (0.00046)	ND (0.00046)	0.0017	0.0014 J-	ND (0.00042)	ND (0.00049)	0.001	0.00058	ND (0.29)	ND (0.0005)	ND (0.00048)	ND (0.00054)	0.00014 J	ND (0.00042)
Trichlorofluoromethane (CFC-11)		NA	NA	NA	ND (0.0036)	ND (0.0037)	ND (0.0072)	ND (0.0044) J	ND (0.0033)	ND (0.0039)	ND (0.0047)	ND (0.0035)	ND (2.3)	ND (0.004)	ND (0.0038)	ND (0.0043)	ND (0.004)	ND (0.0034)
Vinyl acetate		NA	NA	NA	ND (0.0091)	ND (0.0092)	ND (0.018)	ND (0.011) J	ND (0.0084)	ND (0.0099)	ND (0.012)	ND (0.0087)	ND (5.7)	ND (0.0099)	ND (0.0096)	ND (0.011)	ND (0.01)	ND (0.0084)
Vinyl chloride		0.02	0.9	0.02	ND (0.00091)	ND (0.00092)	ND (0.0018)	ND (0.0011) J	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	ND (0.57)	ND (0.00099)	ND (0.00096) J	ND (0.0011) J	ND (0.001) J	ND (0.00084) J
Xylene (Total)		1.6	100	0.26	0.00077 J	ND (0.00092)	ND (0.0018)	ND (0.0011)	ND (0.00084)	ND (0.00099)	ND (0.0012)	ND (0.00087)	130	0.0034 J	ND (0.00096)	ND (0.0011)	ND (0.001)	ND (0.00084)
Semi-Volatile Organic Compounds (mg/kg)																		
1,2,4,5-Tetrachlorobenzene		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
1,2,4-Trichlorobenzene		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
1,2-Dichlorobenzene		1.1	100	1.1	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
1,3-Dichlorobenzene		2.4	49	2.4	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
1,4-Dichlorobenzene		1.8	13	1.8	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
1,4-Dioxane		0.1	13	0.1	ND (0.03)	ND (0.029)	ND (0.028)	ND (0.028)	ND (0.029)	ND (0.03)	ND (0.027)	ND (0.028)	ND (0.029)	ND (0.028)	ND (0.027)	ND (0.026)	ND (0.15)	ND (0.03)
2,2'-oxybis(1-Chloropropane)		NA	NA	NA	ND (0.24)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.21)	ND (0.21)	ND (1.2)	ND (0.24)
2,4,5-Trichlorophenol		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2,4,6-Trichlorophenol		NA	NA	NA	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.1)	ND (0.62)	ND (0.12)
2,4-Dichlorophenol		NA	NA	NA	ND (0.18)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.93)	ND (0.18)
2,4-Dimethylphenol		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2,4-Dinitrophenol		NA	NA	NA	ND (0.97)	ND (0.92)	ND (0.88)	ND (0.89)	ND (0.92)	ND (0.94)	ND (0.87)	ND (0.89)	ND (0.93)	ND (0.9)	ND (0.85)	ND (0.84)	ND (5)	ND (0.97)
2,4-Dinitrotoluene		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2,6-Dinitrotoluene		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2-Chloronaphthalene		NA	NA NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2-Chlorophenol		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2-Methylnaphthalene		NA 0.33	NA 100	NA 0.33	0.026 J	ND (0.23)	0.088 J	0.086 J	ND (0.23)	ND (0.24)	0.32 ND (0.18)	0.11 J	1.8	ND (0.22)	ND (0.21)	0.041 J	1.3	ND (0.24)
2-Methylphenol (o-Cresol)		0.33	100	0.33	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2-Nitroaniline		NA	NA NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
2-Nitrophenol		NA NA	NA NA	NA	ND (0.44)	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.41)	ND (0.42)	ND (0.39)	ND (0.4)	ND (0.42)	ND (0.4)	ND (0.38)	ND (0.38)	ND (2.2)	ND (0.44)
3&4-Methylphenol		NA NA	NA NA	NA NA	ND (0.29)	ND (0.27)	ND (0.26)	ND (0.27)	ND (0.28)	ND (0.28)	0.11 J	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.26)	ND (0.25)	ND (1.5)	ND (0.29)
3,3'-Dichlorobenzidine		NA NA	NA NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
3-Nitroaniline		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
4,6-Dinitro-2-methylphenol		NA NA	NA NA	NA	ND (0.52)	ND (0.5)	ND (0.48)	ND (0.48)	ND (0.5)	ND (0.51)	ND (0.47)	ND (0.48)	ND (0.5)	ND (0.49)	ND (0.46)	ND (0.46)	ND (2.7)	ND (0.53)
4-Bromophenyl phenyl ether (BDE-3)		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
4-Chloro-3-methylphenol		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
4-Chloroaniline		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
4-Chlorophenyl phenyl ether		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
4-Nitrophonal		NA NA	NA NA	NA NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
4-Nitrophenol		NA	NA	NA	ND (0.28)	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.27)	ND (0.28)	ND (0.25)	ND (0.26)	ND (0.27)	ND (0.26)	ND (0.25)	ND (0.24)	ND (1.4)	ND (0.28)

TABLE 2 REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL 558 SACKETT STREET

BROOKLYN, NEW YORK

			Action Level		1													
	Location Name	Restricted Use	NY Part 375	NY Part 375	SB-4	SB-4	SB-5	SB-5	SB-5	SB-5	SB-6	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7	SB-7
	Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-4_8-10	SB-4_12-14	SB-5_0-0.5	SB-5_5-7	DUP01_20230621	SB-5_12-14	SB-6_0-0.5	SB-6_5-7	SB-6_10-12	SB-6_12-14	SB-7_0-0.5	SB-7_1-2	SB-7_5-7	SB-7_9-11
	Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/22/2023	06/22/2023	06/22/2023	06/22/2023
	Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335535-11	L2335535-12	L2335535-13	L2335535-14	L2335535-20	L2335535-15	L2335535-16	L2335535-17	L2335535-18	L2335535-19	L2335921-01	L2335921-02	L2335921-03	L2335921-04
	Sample Depth (bgs)	Groundwater	Objectives	Objectives	8 - 10 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)
Acenaphthene		98	100	20	ND (0.16)	ND (0.15)	0.27	0.3	ND (0.15)	ND (0.16)	0.72	0.17	0.07 J	ND (0.15)	0.033 J	0.087 J	4.2	ND (0.16)
Acenaphthylene		107	100	100	ND (0.16)	ND (0.15)	0.29	0.18	ND (0.15)	ND (0.16)	1	0.15	ND (0.15)	ND (0.15)	0.05 J	0.093 J	1.4	ND (0.16)
Acetophenone		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
Anthracene		1000	100	100	ND (0.12)	ND (0.11)	1.1	1.2 J-	ND (0.12)	ND (0.12)	1.9	0.58	ND (0.12)	ND (0.11)	0.13	0.23 J-	6.7	ND (0.12)
Benzo(a)anthracene		1	1	1	ND (0.12)	ND (0.11)	3.4	3.4	ND (0.12)	ND (0.12)	5	1.6	ND (0.12)	ND (0.11)	0.41	0.68	9.1	0.042 J
Benzo(a)pyrene		22	1	1	ND (0.16)	ND (0.15)	3.1	2.9	ND (0.15)	ND (0.16)	4.3	1.3	ND (0.15)	ND (0.15)	0.43	0.64	9.5	ND (0.16)
Benzo(b)fluoranthene		1.7	1	1	ND (0.12)	ND (0.11)	3.9	3.5	ND (0.12)	ND (0.12)	5.1	1.7	ND (0.12)	ND (0.11)	0.51	0.81	11	0.04 J
Benzo(g,h,i)perylene		1000	100	100	ND (0.16)	ND (0.15)	1.9	1.9	ND (0.15)	ND (0.16)	2.6	0.88	ND (0.15)	ND (0.15)	0.24	0.41	4.7	ND (0.16)
Benzo(k)fluoranthene		1.7	3.9	0.8	ND (0.12)	ND (0.11)	0.8	0.79	ND (0.12)	ND (0.12)	1.3	0.51	ND (0.12)	ND (0.11)	0.19	0.22	3.1	ND (0.12)
Benzoic acid		NA	NA	NA	ND (0.65)	ND (0.62)	ND (0.59)	ND (0.6)	ND (0.62)	ND (0.64)	ND (0.58)	ND (0.6)	ND (0.62)	ND (0.61)	ND (0.58)	ND (0.57)	ND (3.3)	ND (0.66)
Benzyl Alcohol		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
Biphenyl		NA	NA	NA	ND (0.46)	ND (0.44)	0.028 J	0.036 J	ND (0.44)	ND (0.45)	0.1 J	0.028 J	0.046 J	ND (0.43)	ND (0.4)	ND (0.4)	0.45 J	ND (0.46)
bis(2-Chloroethoxy)methane		NA	NA	NA	ND (0.22)	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.21)	ND (0.2)	ND (0.19)	ND (0.19)	ND (1.1)	ND (0.22)
bis(2-Chloroethyl)ether		NA	NA	NA	ND (0.18)	ND (0.17)	ND (0.16) J	0.17 R	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.93)	ND (0.18)
bis(2-Ethylhexyl)phthalate		NA	NA	NA	0.18 J	0.16 J	ND (0.18)	ND (0.18)	0.25	0.2	0.31	ND (0.18)	0.24	0.24	ND (0.18)	0.07 J	ND (1)	ND (0.2)
Butyl benzylphthalate (BBP)		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	0.16 J	ND (0.19)	ND (0.19)	ND (0.18)	0.18 R	ND (1)	ND (0.2)
Carbazole		NA	NA	NA	ND (0.2)	ND (0.19)	0.33	0.24 J-	ND (0.19)	ND (0.2)	0.76	0.32	ND (0.19)	ND (0.19)	0.071 J	0.14 J-	2.2	ND (0.2)
Chrysene		1	3.9	1	ND (0.12)	ND (0.11)	3.2	3.2	ND (0.12)	ND (0.12)	4.3	1.5	ND (0.12)	ND (0.11)	0.4	0.74	8.5	0.033 J
Dibenz(a,h)anthracene		1000	0.33	0.33	ND (0.12)	ND (0.11)	0.42	0.42	ND (0.12)	ND (0.12)	0.54	0.22	ND (0.12)	ND (0.11)	0.059 J	0.092 J	0.88	ND (0.12)
Dibenzofuran		210	59	7	ND (0.2)	ND (0.19)	0.17 J	0.19	ND (0.19)	ND (0.2)	0.59	0.18	0.05 J	ND (0.19)	0.025 J	0.069 J	2.6	ND (0.2)
Diethyl phthalate		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
Dimethyl phthalate		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
Di-n-butylphthalate (DBP)		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	0.18 R	ND (0.19)	ND (0.2)	0.074 J	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	0.18 R	ND (1)	ND (0.2)
Di-n-octyl phthalate (DnOP)		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
Fluoranthene		1000	100	100	ND (0.12)	ND (0.11)	6.2	5.4 J-	ND (0.12)	ND (0.12)	14	2.7	0.04 J	ND (0.11)	0.81	1.4 J-	25	0.071 J
Fluorene		386	100	30	ND (0.2)	ND (0.19)	0.26	0.33	ND (0.19)	ND (0.2)	0.74	0.23	0.14 J	ND (0.19)	0.037 J	0.088 J	3.2	ND (0.2)
Hexachlorobenzene		3.2	1.2	0.33	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.1)	ND (0.62)	ND (0.12)
Hexachlorobutadiene		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
Hexachlorocyclopentadiene		NA	NA	NA	ND (0.58) J	ND (0.54) J	ND (0.52) J	ND (0.53) J	ND (0.55) J	ND (0.56) J	ND (0.52) J	ND (0.53) J	ND (0.55) J	ND (0.54) J	ND (0.51)	ND (0.5)	ND (2.9)	ND (0.58)
Hexachloroethane		NA	NA	NA	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.82)	ND (0.16)
Indeno(1,2,3-cd)pyrene		8.2	0.5	0.5	ND (0.16)	ND (0.15)	2.1	1.9	ND (0.15)	ND (0.16)	2.8	0.93	ND (0.15)	ND (0.15)	0.27	0.42	5.1	ND (0.16)
Isophorone		NA	NA	NA	ND (0.18)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.93)	ND (0.18)
Naphthalene		12	100	12	ND (0.2)	ND (0.19)	0.2	0.12 J	ND (0.19)	ND (0.2)	0.88	0.2	1.5	ND (0.19)	0.03 J	0.087 J	2.2	ND (0.2)
Nitrobenzene		NA	NA	NA	ND (0.18)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.93)	ND (0.18)
N-Nitrosodi-n-propylamine		NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1)	ND (0.2)
N-Nitrosodiphenylamine		NA	NA	NA	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.82)	ND (0.16)
Pentachlorophenol		0.8	6.7	0.8	ND (0.16)	ND (0.15)	ND (0.15)	0.15 R	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.14) J	0.14 R	ND (0.82)	ND (0.16)
Phenanthrene		1000	100	100	ND (0.12)	ND (0.11)	4.5	4.5 J-	ND (0.12)	ND (0.12)	7.2	2.2	0.32	ND (0.11)	0.57	1.1 J-	27	0.05 J
Phenol		0.33	100	0.33	ND (0.2)	ND (0.19)	ND (0.18) J	0.18 R	ND (0.19)	ND (0.2)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18) J	ND (0.18) J	ND (1)	ND (0.2)
Pyrene		1000	100	100	ND (0.12)	ND (0.11)	6	5.3 J-	ND (0.12)	ND (0.12)	14	2.4	0.071 J	ND (0.11)	0.69	1.2 J-	22	0.058 J

TABLE 2
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL
558 SACKETT STREET
BROOKLYN, NEW YORK

BROOKLYN, NEW YORK FILE NO. 0206384																		
			Action Level		7													
	Location Name	Restricted Use	NY Part 375	NY Part 375	SB-4	SB-4	SB-5	SB-5	SB-5	SB-5	SB-6	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7	SB-7
	Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-4_8-10	SB-4_12-14	SB-5_0-0.5	SB-5_5-7	DUP01_20230621	SB-5_12-14	SB-6_0-0.5	SB-6_5-7	SB-6_10-12	SB-6_12-14	SB-7_0-0.5	SB-7_1-2	SB-7_5-7	SB-7_9-11
	Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/22/2023	06/22/2023	06/22/2023	06/22/2023
	Lab Sample ID	Protection of Groundwater	Soil Cleanup	Soil Cleanup	L2335535-11	L2335535-12	L2335535-13	L2335535-14	L2335535-20	L2335535-15	L2335535-16	L2335535-17	L2335535-18	L2335535-19	L2335921-01	L2335921-02	L2335921-03	L2335921-04
Sa	ample Depth (bgs)	Groundwater	Objectives	Objectives	8 - 10 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)
Inorganic Compounds (mg/kg)																		
Aluminum		NA	NA	NA	8740	5970	3580	4350	8650	8700	6580	7230	3100	2890	7640	7460	5760	7930
Antimony Arsenic		NA 16	NA 16	NA 13	ND (4.78) J 2.14	0.671 J 3.03	16 J 26.5	2.72 J 7.62	0.698 J 3.88	0.577 J 4.04	1.39 J 9.69	3.61 J 7.32	ND (4.5) J 0.88 J	0.423 J 0.652 J	1.12 J 6.43 J	1.36 J 5.33	2.44 J 8.48	0.738 J 3.74
Barium		820	400	350	34.5	20.2	35.2	115	10.6	10.6	216	114	14.6	13.8	108 J	172	260	59.9
Beryllium		47	72	7.2	0.639	0.47	0.22 J	0.289 J	0.375 J	0.432 J	0.418 J	0.427 J	0.257 J	0.274 J	0.498	0.525	0.726	0.565
Cadmium		7.5	4.3	2.5	ND (0.956)	0.096 J	1.26 J	0.473 J	ND (0.895)	ND (0.921)	1.3	1.07	ND (0.899)	ND (0.886)	0.243 J	0.59 J	0.922 J	0.159 J
Calcium		NA	NA	NA	2550 J	701 J	18300 J	32200 J	720 J	724 J	17600 J	13600 J	490 J	690 J	30400 J	11200	33700	8290
Chromium		NA	NA	NA	11.7	11.7	297	40.3	14.7	19.7	21	16.7	9.61	9.44	38 J	25 J	30.9 J	54.4 J
Cobalt		NA 1720	NA 370	NA 50	4.91	7.59	39.3	3.96	4.04 7.97	4.2	5.84	5.16	3.32	3 7.94	7.88 242 J	8.45	9.79 74.4	10.2 40.8
Copper Iron		NA	270 NA	NA	7.35 11000	8.95 12100	1210 319000	116 36400	14400	13.1 16200	92.4 15800	77.9 15700	8.71 8190	7.94 7600	14000	112 15000	31700	17100
Lead		450	400	63	19.2 J	3.66 J	64 J	145 J	6.54 J	7.54 J	727 J	814 J	5.27 J	2.77 J	132 J	169 J	628 J	31.2 J
Magnesium		NA	NA	NA	1650 J	2610 J	2670 J	5060 J	1830 J	2630 J	7670 J	5240 J	1380 J	1240 J	5260	4280	9290	5260
Manganese		2000	2000	1600	212	167	2680	274	93.1	132	546	274	103	77.2	363	416	451	459
Mercury		0.73	0.81	0.18	ND (0.091)	ND (0.083)	0.145	0.185	ND (0.086)	ND (0.082)	2.03	1.13	ND (0.084)	ND (0.083)	0.645 J+	0.934 J+	1.43 J+	ND (0.085)
Nickel		130	310	30	13.3	18.8	317	27.5	11.3	13.6	20.6	19.2	15.1	12.7	62.5 J	37.7 J	28.7 J	41.6 J
Potassium		NA 4	NA 180	NA 3.9	423 0.76 J	553 ND (1.93)	483 J 3.13 J	816 0.435 J	624 0.234 J	673 ND (1.84)	731 1.19 J	700 0.745 J	444 0.248 J	448 ND (1.77)	1770 0.314 J	1750 0.436 J	1010 1.07 J	2340 ND (1.91)
Selenium Silver		8.3	180	2	0.763 ND (0.478)	ND (1.83) ND (0.456)	ND (2.16)	ND (0.452)	ND (0.447)	ND (1.84) ND (0.46)	0.262 J	ND (0.435)	ND (0.45)	ND (1.77) ND (0.443)	ND (0.402)	ND (0.414)	ND (0.492)	ND (1.91) ND (0.478)
Sodium		NA	NA	NA	225	84.1 J	519	492	116 J	145 J	181	154 J	81.5 J	110 J	680 J	240 J	206 J	428 J
Thallium		NA	NA	NA	0.516 J	0.487 J	4.88	0.667 J	ND (1.79)	ND (1.84)	0.808 J	0.467 J	ND (1.8)	ND (1.77)	0.71 J	0.773 J	1.02 J	0.843 J
Vanadium		NA	NA	NA	15.3	22.9	12.9	17	21.4	27.1	22.8	22.3	15.5	13.8	27	29.3	24.6	29.7
Zinc		2480	10000	109	24.9 J	20.6 J	37.8 J	110 J	23.4 J	22 J	588 J	314 J	18 J	17.4 J	105	146	602	53.6
PCBs (mg/kg)																		
Aroclor-1016 (PCB-1016)		NA	NA	NA	ND (0.115)	ND (0.0557)	ND (0.0536)	ND (0.0546)	ND (0.0559)	ND (0.0572)	ND (0.0531)	ND (0.0562)	ND (0.0537)	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Aroclor-1221 (PCB-1221)		NA	NA	NA	ND (0.115)	ND (0.0557)	ND (0.0536)	ND (0.0546)	ND (0.0559)	ND (0.0572)	ND (0.0531)	ND (0.0562)	ND (0.0537)	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Aroclor-1232 (PCB-1232) Aroclor-1242 (PCB-1242)		NA NA	NA NA	NA NA	ND (0.115) ND (0.115)	ND (0.0557) ND (0.0557)	ND (0.0536)	ND (0.0546)	ND (0.0559) ND (0.0559)	ND (0.0572) ND (0.0572)	ND (0.0531) ND (0.0531)	ND (0.0562) ND (0.0562)	ND (0.0537)	ND (0.0538) ND (0.0538)	ND (0.0518) ND (0.0518)	ND (0.0512)	ND (0.0608) ND (0.0608)	ND (0.0578) ND (0.0578)
Aroclor-1242 (PCB-1242) Aroclor-1248 (PCB-1248)		NA NA	NA NA	NA NA	ND (0.115) ND (0.115)	ND (0.0557)	ND (0.0536) ND (0.0536)	ND (0.0546) ND (0.0546)	ND (0.0559)	ND (0.0572) ND (0.0572)	ND (0.0531) ND (0.0531)	ND (0.0562)	ND (0.0537) ND (0.0537)	ND (0.0538)	ND (0.0518)	ND (0.0512) ND (0.0512)	ND (0.0608)	ND (0.0578)
Aroclor-12-4 (PCB-1254)		NA	NA	NA	ND (0.115)	ND (0.0557)	0.0128 J	ND (0.0546)	ND (0.0559)	ND (0.0572)	0.0276 J	0.0226 J	ND (0.0537)	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Aroclor-1260 (PCB-1260)		NA	NA	NA	ND (0.115)	ND (0.0557)	0.0138 J	ND (0.0546)	ND (0.0559)	ND (0.0572)	0.02 J	0.0292 J	0.0118 J	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Aroclor-1262 (PCB-1262)		NA	NA	NA	ND (0.115)	ND (0.0557)	ND (0.0536)	ND (0.0546)	ND (0.0559)	ND (0.0572)	ND (0.0531)	ND (0.0562)	ND (0.0537)	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Aroclor-1268 (PCB-1268)		NA	NA	NA	ND (0.115)	ND (0.0557)	0.0124 J	ND (0.0546)	ND (0.0559)	ND (0.0572)	ND (0.0531)	ND (0.0562)	ND (0.0537)	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Polychlorinated biphenyls (PCBs)		3.2	1	0.1	ND (0.115)	ND (0.0557)	0.039 J	ND (0.0546)	ND (0.0559)	ND (0.0572)	0.0476 J	0.0518 J	0.0118 J	ND (0.0538)	ND (0.0518)	ND (0.0512)	ND (0.0608)	ND (0.0578)
Other																		
Total Solids (%)		NA	NA	NA	81.8	84.7	88.6	88	86.1	84	90.2	88.8	85.3	87.5	93.8	94.7	79.9	82.3
Pesticides (mg/kg)																		
4,4'-DDD		14	13	0.0033	0.0019 R	ND (0.0018)	0.000686 J	ND (0.00179) J	ND (0.00175)	ND (0.00181)	0.00931	0.00931	ND (0.00177)	ND (0.00178)	ND (0.00166)	ND (0.0016)	ND (0.00197)	ND (0.00191)
4,4'-DDE		17 126	8.9	0.0033	0.0019 R	ND (0.0018)	0.00215	0.00525	ND (0.00175)	ND (0.00181)	0.0122	0.00771	ND (0.00177)	ND (0.00178)	ND (0.00166)	0.000402 J	0.000637 J	ND (0.00191)
4,4'-DDT Aldrin		136 0.19	7.9 0.097	0.0033 0.005	0.0019 R 0.0019 R	ND (0.0018) ND (0.0018)	0.00957 ND (0.00179)	0.00783 ND (0.00179)	ND (0.00175) ND (0.00175)	ND (0.00181) ND (0.00181)	0.0315 ND (0.00175)	0.0143 ND (0.00178)	ND (0.00177) ND (0.00177)	ND (0.00178) ND (0.00178)	ND (0.00166) ND (0.00166)	0.00211 ND (0.0016)	0.00357 J ND (0.00197)	ND (0.00191) ND (0.00191)
alpha-BHC		0.02	0.48	0.003	0.0019 R 0.000791 R	ND (0.0018)	ND (0.00173)	ND (0.00173) ND (0.000746)	ND (0.00173) ND (0.00073)	ND (0.00181)	ND (0.00173) ND (0.00073)	ND (0.00178) ND (0.000744)	ND (0.00177)	ND (0.00178) ND (0.000744)	ND (0.00100) ND (0.00069)	ND (0.0016)	ND (0.00137) ND (0.00082)	ND (0.00191)
alpha-Chlordane (cis)		2.9	4.2	0.094	0.00237 R	ND (0.00225)	0.00261	0.00303	ND (0.00219)	ND (0.00226)	0.00108 J	0.0007 J	ND (0.00221)	ND (0.00223)	ND (0.00207)	ND (0.002)	0.00089 J	ND (0.00238)
beta-BHC		0.09	0.36	0.036	0.0019 R	ND (0.0018)	ND (0.00179)	ND (0.00179)	ND (0.00175)	ND (0.00181)	ND (0.00175)	ND (0.00178)	ND (0.00177)	ND (0.00178)	ND (0.00166)	ND (0.0016)	ND (0.00197)	ND (0.00191)
Chlordane		NA	NA	NA	0.0158 R	ND (0.015)	ND (0.0149)	ND (0.0149)	ND (0.0146)	ND (0.015)	ND (0.0146)	ND (0.0149)	ND (0.0147)	ND (0.0149)	ND (0.0138)	ND (0.0133)	ND (0.0164)	ND (0.0159)
delta-BHC		0.25	100	0.04	0.0019 R	ND (0.0018)	ND (0.00179)	ND (0.00179)	ND (0.00175)	ND (0.00181)	ND (0.00175)	ND (0.00178)	ND (0.00177)	ND (0.00178)	ND (0.00166)	ND (0.0016)	ND (0.00197)	ND (0.00191)
Dieldrin Endosulfan I		0.1 102	0.2 24	0.005 2.4	0.00119 R 0.0019 R	ND (0.00112) ND (0.0018)	ND (0.00112) ND (0.00179)	ND (0.00112) ND (0.00179)	ND (0.0011) ND (0.00175)	ND (0.00113) ND (0.00181)	ND (0.0011) ND (0.00175)	ND (0.00112) ND (0.00178)	ND (0.0011) ND (0.00177)	ND (0.00112) ND (0.00178)	ND (0.00104) ND (0.00166)	ND (0.001) ND (0.0016)	ND (0.00123) ND (0.00197)	ND (0.00119) ND (0.00191)
Endosulfan II		102	24	2.4	0.0019 R 0.0019 R	ND (0.0018)	ND (0.00179) ND (0.00179)	ND (0.00179) ND (0.00179)	ND (0.00175) ND (0.00175)	ND (0.00181) ND (0.00181)	ND (0.00175) ND (0.00175)	ND (0.00178) ND (0.00178)	ND (0.00177) ND (0.00177)	ND (0.00178) ND (0.00178)	ND (0.00166) ND (0.00166)	ND (0.0016) ND (0.0016)	ND (0.00197) ND (0.00197)	ND (0.00191) ND (0.00191)
Endosulfan sulfate		1000	24	2.4	0.000791 R	ND (0.00075)	ND (0.000746)	ND (0.000746)	ND (0.00073)	ND (0.000753)	ND (0.00073)	ND (0.000744)	ND (0.000737)	ND (0.000744)	ND (0.00069)	ND (0.000667)	ND (0.00082)	ND (0.000795)
Endrin		0.06	11	0.014	0.000791 R	ND (0.00075)	ND (0.000746)	ND (0.000746)	ND (0.00073)	ND (0.000753)	ND (0.00073)	ND (0.000744)	ND (0.000737)	ND (0.000744)	ND (0.00069)	ND (0.000667)	ND (0.00082)	ND (0.000795)
Endrin aldehyde		NA	NA	NA	0.00237 R	ND (0.00225)	ND (0.00224)	ND (0.00224)	ND (0.00219)	ND (0.00226)	ND (0.00219)	ND (0.00223)	ND (0.00221)	ND (0.00223)	ND (0.00207)	ND (0.002)	ND (0.00246)	ND (0.00238)
Endrin ketone		NA	NA	NA	0.0019 R	ND (0.0018)	ND (0.00179)	ND (0.00179)	ND (0.00175)	ND (0.00181)	ND (0.00175)	ND (0.00178)	ND (0.00177)	ND (0.00178)	ND (0.00166)	ND (0.0016)	ND (0.00197)	ND (0.00191)
gamma-BHC (Lindane)		0.1	1.3	0.1	0.000791 R	ND (0.00075)	ND (0.000746)	ND (0.000746)	ND (0.00073)	ND (0.000753)	ND (0.00073)	ND (0.000744)	ND (0.000737)	ND (0.000744)	ND (0.00069)	ND (0.000667)	ND (0.00082)	ND (0.000795)
gamma-Chlordane (trans) Heptachlor		NA 0.38	NA 2.1	NA 0.042	0.00237 R 0.00095 R	ND (0.00225) ND (0.0009)	0.00178 J ND (0.000895)	0.000846 J ND (0.000895)	ND (0.00219) ND (0.000876)	ND (0.00226) ND (0.000904)	0.00202 J ND (0.000876)	0.00188 J ND (0.000892)	ND (0.00221) ND (0.000884)	ND (0.00223) ND (0.000892)	ND (0.00207) ND (0.000828)	ND (0.002) ND (0.0008)	ND (0.00246) J ND (0.000984)	ND (0.00238) ND (0.000954)
Heptachlor epoxide		NA	NA	0.042 NA	0.00095 R 0.00356 R	ND (0.0009) ND (0.00337)	ND (0.000895)	ND (0.000895) ND (0.00336)	ND (0.00328)	ND (0.000904)	ND (0.000876) ND (0.00329)	ND (0.000892) ND (0.00335)	ND (0.000884) ND (0.00332)	ND (0.000892) ND (0.00335)	ND (0.000828) ND (0.00311)	ND (0.0008) ND (0.003)	ND (0.000984) ND (0.00369)	ND (0.000954) ND (0.00358)
Methoxychlor		NA NA	NA NA	NA	0.00356 R	ND (0.00337)	ND (0.00336)	ND (0.00336)	ND (0.00328)	ND (0.00339)	ND (0.00329)	ND (0.00335)	ND (0.00332)	ND (0.00335)	ND (0.00311)	ND (0.003)	ND (0.00369)	ND (0.00358)
Toxaphene		NA	NA	NA	0.0356 R	ND (0.0337)	ND (0.0336)	ND (0.0336)	ND (0.0328)	ND (0.0339)	ND (0.0329)	ND (0.0335)	ND (0.0332)	ND (0.0335)	ND (0.0311)	ND (0.03)	ND (0.0369)	ND (0.0358)
•											•	•	•		•		•	

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

558 SACKETT STREET BROOKLYN, NEW YORK

FILE NO. 0206384

		Action Level ricted Use NY Part 375 NY Part 375 SE		Ī													
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-4	SB-4	SB-5	SB-5	SB-5	SB-5	SB-6	SB-6	SB-6	SB-6	SB-7	SB-7	SB-7	SB-7
Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-4_8-10	SB-4_12-14	SB-5_0-0.5	SB-5_5-7	DUP01_20230621	SB-5_12-14	SB-6_0-0.5	SB-6_5-7	SB-6_10-12	SB-6_12-14	SB-7_0-0.5	SB-7_1-2	SB-7_5-7	SB-7_9-11
Sample Date	Objectives -	Residential Use	Use	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/21/2023	06/22/2023	06/22/2023	06/22/2023	06/22/2023
Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335535-11	L2335535-12	L2335535-13	L2335535-14	L2335535-20	L2335535-15	L2335535-16	L2335535-17	L2335535-18	L2335535-19	L2335921-01	L2335921-02	L2335921-03	L2335921-04
Sample Depth (bgs)	Groundwater	Objectives	Objectives	8 - 10 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	5 - 7 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	5 - 7 (ft)	10 - 12 (ft)	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)
PFAS (ng/g)																	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	NA	ND (0.785)	ND (0.778)	ND (0.784)	ND (0.776)	ND (0.787)	ND (0.783)	ND (0.777)	ND (0.778)	ND (0.783)	ND (0.783)	ND (0.787)	ND (0.768)	ND (0.767)	ND (0.761)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	NA	ND (0.785)	ND (0.778)	ND (0.784)	ND (0.776)	ND (0.787)	ND (0.783)	ND (0.777)	ND (0.778)	ND (0.783)	ND (0.783)	ND (0.787)	ND (0.768)	ND (0.767)	ND (0.761)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorobutanesulfonic acid (PFBS)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	0.054 J	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorobutanoic acid (PFBA)	NA	NA	NA	ND (0.785)	ND (0.778)	ND (0.784)	ND (0.776)	ND (0.787)	ND (0.783)	ND (0.777)	ND (0.778)	ND (0.783)	ND (0.783)	ND (0.787)	ND (0.768)	ND (0.767)	ND (0.761)
Perfluorodecanesulfonic acid (PFDS)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorodecanoic acid (PFDA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorododecanoic acid (PFDoDA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluoroheptanesulfonic acid (PFHpS)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluoroheptanoic acid (PFHpA)	NA	NA	NA	ND (0.196)	ND (0.194)	0.055 J	ND (0.194)	ND (0.197)	ND (0.196)	0.062 J	0.039 J	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	0.046 J	ND (0.19)
Perfluorohexanesulfonic acid (PFHxS)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorohexanoic acid (PFHxA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	0.054 J	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorononanoic acid (PFNA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorooctane sulfonamide (PFOSA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorooctanesulfonic acid (PFOS)	1	44	0.88	ND (0.196)	ND (0.194)	0.274	0.248	ND (0.197)	ND (0.196)	0.458	0.202	ND (0.196)	ND (0.196)	0.11 J	0.138 J	0.245	ND (0.19)
Perfluorooctanoic acid (PFOA)	0.8	33	0.66	ND (0.196)	ND (0.194)	0.196	0.14 J	ND (0.197)	ND (0.196)	0.676	0.404	ND (0.196)	ND (0.196)	0.126 J	0.069 J	0.445	ND (0.19)
Perfluoropentanoic acid (PFPeA)	NA	NA	NA	ND (0.392)	ND (0.389)	ND (0.392)	ND (0.388)	ND (0.394)	ND (0.392)	ND (0.388)	ND (0.389)	ND (0.391)	ND (0.391)	ND (0.393)	ND (0.384)	ND (0.383)	ND (0.38)
Perfluorotetradecanoic acid (PFTeDA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluorotridecanoic acid (PFTrDA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
Perfluoroundecanoic acid (PFUnDA)	NA	NA	NA	ND (0.196)	ND (0.194)	ND (0.196)	ND (0.194)	ND (0.197)	ND (0.196)	ND (0.194)	ND (0.194)	ND (0.196)	ND (0.196)	ND (0.197)	ND (0.192)	ND (0.192)	ND (0.19)
US EPA PFAS (PFOS + PFOA)	NA	NA	NA	ND (0.196)	ND (0.194)	0.47	0.388 J	ND (0.197)	ND (0.196)	1.13	0.606	ND (0.196)	ND (0.196)	0.236 J	0.207 J	0.69	ND (0.19)

ABBREVIATIONS AND NOTES:

mg/kg: milligram per kilogram ng/g: nanogram per gram

-: Not Analyzed

bgs: below ground surface

ft: feet

J: Value is estimated.

J+: Value is estimated, high bias

J-: Value is estimated, low bias

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

R: Rejected

- For test methods used, see the laboratory data sheets.

- Soil analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and

Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (SCO), Restricted-Use Residential SCOs, and Protection of Groundwater SCO's.

- **Bold italic** values indicate an exceedance of the Protection of Groundwater Criteria.

- Grey shading indicates an exceedance of the Unrestricted Use Soil Cleanup Objectives.

- Yellow shading indicates an exceedance of the Restricted Use Residential Soil Cleanup Objectives.

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

558 SACKETT STREET BROOKLYN, NEW YORK

	Action Level			1						
Location Nam	Restricted Use	NY Part 375	NY Part 375	SB-7	SB-8	SB-8	SB-8	SB-8	SB-8	
Sample Nam	Soil Cleanup	Restricted	Unrestricted	SB-7_12-14	SB-8_0-0.5	SB-8_1-2	SB-8_5-7	SB-8_9-11	SB-8_12-14	
Sample Dat	Objectives -	Residential Use	Use	06/22/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023	
Lab Sample II	Protection of	Soil Cleanup	Soil Cleanup	L2335921-05	L2336234-01	L2336234-02	L2336234-03	L2336234-04	L2336234-05	
Sample Depth (bgs	Groundwater	Objectives	Objectives	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)	
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NA	NA	NA	ND (0.00061)	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
1,1,1-Trichloroethane	0.68	100	0.68	ND (0.00061)	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
1,1,2,2-Tetrachloroethane	NA	NA	NA	ND (0.00061)	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
1,1,2-Trichloroethane	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)	
1,1-Dichloroethane	0.27	26	0.27	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)	
1,1-Dichloroethene	0.33	100	0.33	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)	
1,1-Dichloropropene	NA	NA	NA	ND (0.00061)	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
1,2,3-Trichlorobenzene	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,2,3-Trichloropropane	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021)	
1,2,4,5-Tetramethylbenzene	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,2,4-Trichlorobenzene	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,2,4-Trimethylbenzene	3.6	52	3.6	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	ND (0.0036)	ND (0.0039)	ND (0.0036)	ND (0.0033)	ND (0.003)	ND (0.0031) J	
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)	
1,2-Dichlorobenzene	1.1	100	1.1	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,2-Dichloroethane	0.02	3.1	0.02	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)	
1,2-Dichloroethene (total)	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	0.00032 J	0.00035 J	
1,2-Dichloropropane	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)	
1,3,5-Trimethylbenzene	8.4	52	8.4	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,3-Dichlorobenzene	2.4	49	2.4	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,3-Dichloropropane	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021)	
1,3-Dichloropropene	NA	NA	NA	ND (0.00061)	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
1,4-Dichlorobenzene	1.8	13	1.8	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,4-Diethylbenzene	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
1,4-Dioxane	0.1	13	0.1	ND (0.097)	ND (0.1)	ND (0.097)	ND (0.088)	ND (0.079)	ND (0.084)	
2,2-Dichloropropane	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021)	
2-Butanone (Methyl Ethyl Ketone)	0.12	100	0.12	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01)	
2-Chlorotoluene	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
2-Hexanone (Methyl Butyl Ketone)	NA	NA	NA	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01)	
2-Phenylbutane (sec-Butylbenzene)	11	100	11	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001) J	
4-Chlorotoluene	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	NA	NA	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01)	
Acetone	0.05	100	0.05	ND (0.012)	0.013	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01)	
Acrylonitrile	NA	NA	NA	ND (0.0049)	ND (0.0052)	ND (0.0049)	ND (0.0044)	ND (0.0039)	ND (0.0042)	
Benzene	0.06	4.8	0.06	ND (0.00061)	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
Bromobenzene	NA NA	NA NA	NA NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J	
Bromodichloromethane	NA NA	NA NA	NA	0.00016 J	ND (0.00065)	ND (0.00061)	ND (0.00055)	ND (0.00049)	ND (0.00052)	
Bromoform Bromomethana (Mathyl Bromida)	NA NA	NA NA	NA NA	ND (0.0049)	ND (0.0052)	ND (0.0049)	ND (0.0044)	ND (0.0039) ND (0.002)	ND (0.0042)	
Bromomethane (Methyl Bromide)	NA NA	NA NA	NA NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	` ,	ND (0.0021)	
Carbon disulfide	NA 0.76	NA 2.4	NA 0.76	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01)	
Carbon tetrachloride Chlorobenzene	0.76 1.1	2.4 100	0.76 1.1	ND (0.0012) ND (0.00061)	ND (0.0013) ND (0.00065)	ND (0.0012) ND (0.00061)	ND (0.0011) ND (0.00055)	ND (0.00099) ND (0.00049)	ND (0.001) ND (0.00052) J	
Chlorobromomethane				ND (0.00061) ND (0.0024)	ND (0.00065)	ND (0.00061) ND (0.0024)		ND (0.00049) ND (0.002)	ND (0.00052) J ND (0.0021)	
Chloroethane	NA NA	NA NA	NA NA	ND (0.0024) ND (0.0024)	ND (0.0026)	ND (0.0024) ND (0.0024)	ND (0.0022) ND (0.0022)	ND (0.002) ND (0.002)	ND (0.0021) ND (0.0021)	
Chloroform (Trichloromethane)	0.37	NA 49	NA 0.37	0.0024)	ND (0.0028) ND (0.0019)	ND (0.0024) ND (0.0018)	0.00034 J	0.00032 J	ND (0.0021) ND (0.0016)	
Chloromethane (Methyl Chloride)	NA	NA	NA	ND (0.0049)	ND (0.0019) ND (0.0052)	ND (0.0018) ND (0.0049)	ND (0.0044)	ND (0.0032)	ND (0.0016) ND (0.0042)	
cis-1,2-Dichloroethene	0.25	100	0.25	ND (0.0049)	ND (0.0032)	ND (0.0043) ND (0.0012)	ND (0.0044) ND (0.0011)	0.00032 J	0.00035 J	
cis-1,3-Dichloropropene	NA	NA	NA	ND (0.0012) ND (0.00061)		ND (0.0012) ND (0.00061)	ND (0.0011) ND (0.00055)	ND (0.00049)	ND (0.00052)	
Cymene (p-Isopropyltoluene)	NA NA	NA NA	NA NA	ND (0.0001) ND (0.0012)	ND (0.0003)	ND (0.0001) ND (0.0012)	ND (0.00033) ND (0.0011)	ND (0.00049) ND (0.00099)	ND (0.00032)	
Dibromochloromethane	NA NA	NA NA	NA NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011) ND (0.0011)	ND (0.00099)	ND (0.001) 3 ND (0.001)	
Pioromodificialic	1974	INA	147	140 (0.0012)	140 (0.0013)	(4D (0.001Z)	145 (0.0011)	140 (0.00033)	140 (0.001)	

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL 558 SACKETT STREET

BROOKLYN, NEW YORK FILE NO. 0206384

		Action Level		Ī					
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-7	SB-8	SB-8	SB-8	SB-8	SB-8
Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-7_12-14	SB-8_0-0.5	SB-8_1-2	SB-8_5-7	SB-8_9-11	SB-8_12-14
Sample Date	Objectives -	Residential Use	Use	06/22/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023
Lab Sample ID		Soil Cleanup	Soil Cleanup	L2335921-05	L2336234-01	L2336234-02	L2336234-03	L2336234-04	L2336234-05
Sample Depth (bgs)	Groundwater	Objectives	Objectives	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)
Dibromomethane	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J
Dichlorodifluoromethane (CFC-12)	NA	NA	NA	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01)
Ethyl Ether	NA	NA	NA	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021)
Ethylbenzene	1	41	1	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001) J
Hexachlorobutadiene	NA	NA	NA	ND (0.0049)	ND (0.0052)	ND (0.0049)	ND (0.0044)	ND (0.0039)	ND (0.0042) J
Isopropylbenzene (Cumene)	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001) J
m,p-Xylenes	NA 0.03	NA 100	NA 0.03	ND (0.0024)	ND (0.0026)	ND (0.0024)	ND (0.0022)	ND (0.002)	ND (0.0021) J ND (0.0021)
Methyl Tert Butyl Ether (MTBE)	0.93	100	0.93	ND (0.0024)	ND (0.0026) ND (0.0065)	ND (0.0024)	ND (0.0022)	ND (0.002) ND (0.0049)	, ,
Methylene chloride (Dichloromethane) Naphthalene	0.05 12	100 100	0.05 12	ND (0.0061) ND (0.0049)	ND (0.0063) ND (0.0052)	ND (0.0061) ND (0.0049)	ND (0.0055) ND (0.0044)	ND (0.0049) ND (0.0039)	ND (0.0052) ND (0.0042) J
n-Butylbenzene	12	100	12	ND (0.0049)	ND (0.0032) ND (0.0013)	ND (0.0049) ND (0.0012)	ND (0.0044) ND (0.0011)	ND (0.0039)	ND (0.0042) J
n-Propylbenzene	3.9	100	3.9	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011) ND (0.0011)	ND (0.00099)	ND (0.001) J
o-Xylene	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001) J
Styrene	NA NA	NA NA	NA NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011) ND (0.0011)	ND (0.00099)	ND (0.001) J
tert-Butylbenzene	5.9	100	5.9	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011) ND (0.0022)	ND (0.00033)	ND (0.001) J
Tetrachloroethene	1.3	19	1.3	0.0011	0.00067	0.00032 J	0.00039 J	0.0012	0.003 J
Toluene	0.7	100	0.7	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)
trans-1,2-Dichloroethene	0.19	100	0.19	ND (0.0018)	ND (0.0019)	ND (0.0018)	ND (0.0016)	ND (0.0015)	ND (0.0016)
trans-1,3-Dichloropropene	NA	NA	NA	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)
trans-1,4-Dichloro-2-butene	NA	NA	NA	ND (0.0061)	ND (0.0065)	ND (0.0061)	ND (0.0055)	ND (0.0049)	ND (0.0052)
Trichloroethene	0.47	21	0.47	ND (0.00061)	ND (0.00065)	ND (0.00061)	0.00026 J	0.00038 J	0.00045 J
Trichlorofluoromethane (CFC-11)	NA	NA	NA	ND (0.0049)	ND (0.0052)	ND (0.0049)	ND (0.0044)	ND (0.0039)	ND (0.0042)
Vinyl acetate	NA	NA	NA	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.011)	ND (0.0099)	ND (0.01) J
Vinyl chloride	0.02	0.9	0.02	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)
Xylene (Total)	1.6	100	0.26	ND (0.0012)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.00099)	ND (0.001)
Semi-Volatile Organic Compounds (mg/kg)									
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
1,2,4-Trichlorobenzene	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
1,2-Dichlorobenzene	1.1	100	1.1	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
1,3-Dichlorobenzene	2.4	49	2.4	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
1,4-Dichlorobenzene	1.8	13	1.8	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
1,4-Dioxane	0.1	13	0.1	ND (0.029)	ND (0.028)	ND (0.028)	ND (0.03)	ND (0.03)	ND (0.028)
2,2'-oxybis(1-Chloropropane)	NA	NA	NA	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.23)
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
2,4-Dichlorophenol	NA NA	NA NA	NA NA	ND (0.11)	ND (0.11) ND (0.17)	ND (0.11) ND (0.17)	ND (0.12)	ND (0.12) ND (0.18)	ND (0.11)
2,4-Dimethylphenol	NA NA	NA NA	NA NA	ND (0.17) ND (0.19)	ND (0.17) ND (0.18)	ND (0.17) ND (0.19)	ND (0.18) ND (0.2)	ND (0.18) ND (0.2)	ND (0.17) ND (0.19)
2,4-Dinitrophenol	NA NA	NA NA	NA NA	ND (0.19) ND (0.92)	ND (0.18) ND (0.89)	ND (0.19) ND (0.89)	ND (0.2) ND (0.96)	ND (0.2) ND (0.96)	0.91 R
2,4-Dinitrophenor	NA NA	NA NA	NA NA	ND (0.32)	ND (0.89)	ND (0.89)	ND (0.30)	ND (0.30)	ND (0.19)
2,6-Dinitrotoluene	NA NA	NA NA	NA NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
2-Chloronaphthalene	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
2-Chlorophenol	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
2-Methylnaphthalene	NA	NA	NA	0.045 J	0.064 J	0.04 J	ND (0.24)	ND (0.24)	ND (0.23)
2-Methylphenol (o-Cresol)	0.33	100	0.33	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
2-Nitroaniline	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
2-Nitrophenol	NA	NA	NA	ND (0.41)	ND (0.4)	ND (0.4)	ND (0.43)	ND (0.43)	ND (0.41)
3&4-Methylphenol	NA	NA	NA	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.29)	ND (0.27)
3,3'-Dichlorobenzidine	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
3-Nitroaniline	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
4,6-Dinitro-2-methylphenol	NA	NA	NA	ND (0.5)	ND (0.48)	ND (0.48)	ND (0.52)	ND (0.52)	0.49 R
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
4-Chloro-3-methylphenol	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
4-Chloroaniline	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
4-Chlorophenyl phenyl ether	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
4-Nitroaniline	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
4-Nitrophenol	NA	NA	NA	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.28)	ND (0.28)	ND (0.26)

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		Action Level		Ī					
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-7	SB-8	SB-8	SB-8	SB-8	SB-8
Sample Name		Restricted	Unrestricted	SB-7_12-14	SB-8_0-0.5	SB-8_1-2	SB-8_5-7	SB-8_9-11	SB-8_12-14
Sample Date		Residential Use	Use	06/22/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023
Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335921-05	L2336234-01	L2336234-02	L2336234-03	L2336234-04	L2336234-05
Sample Depth (bgs)	Groundwater	Objectives	Objectives	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)
Acenaphthene	98	100	20	ND (0.15)	0.14 J	0.066 J	ND (0.16)	ND (0.16)	ND (0.15)
Acenaphthylene	107	100	100	ND (0.15)	0.054 J	0.054 J	ND (0.16)	ND (0.16)	ND (0.15)
Acetophenone	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Anthracene	1000	100	100	ND (0.11)	0.5	0.18	ND (0.12)	ND (0.12)	ND (0.11)
Benzo(a)anthracene	1	1	1	0.032 J	1.4	0.45	0.042 J	ND (0.12)	ND (0.11)
Benzo(a)pyrene	22	1	1	ND (0.15)	1.2	0.46	ND (0.16)	ND (0.16)	ND (0.15)
Benzo(b)fluoranthene	1.7	1	1	ND (0.11)	1.4	0.54	0.048 J	ND (0.12)	ND (0.11)
Benzo(g,h,i)perylene	1000	100	100	ND (0.15)	0.7	0.27	0.025 J	ND (0.16)	ND (0.15)
Benzo(k)fluoranthene	1.7	3.9	0.8	ND (0.11)	0.41	0.15	ND (0.12)	ND (0.12)	ND (0.11)
Benzoic acid	NA	NA	NA	ND (0.62)	ND (0.6)	ND (0.6)	ND (0.64)	ND (0.65)	0.61 R
Benzyl Alcohol	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Biphenyl	NA	NA	NA	ND (0.44)	ND (0.42)	ND (0.42)	ND (0.45)	ND (0.46)	ND (0.43)
bis(2-Chloroethoxy)methane	NA	NA	NA	ND (0.21)	ND (0.2)	ND (0.2)	ND (0.22)	ND (0.22)	ND (0.2)
bis(2-Chloroethyl)ether	NA	NA	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)
bis(2-Ethylhexyl)phthalate	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Butyl benzylphthalate (BBP)	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Carbazole	NA	NA	NA	ND (0.19)	0.13 J	0.086 J	ND (0.2)	ND (0.2)	ND (0.19)
Chrysene	1	3.9	1	0.028 J	1.4	0.42	0.04 J	ND (0.12)	ND (0.11)
Dibenz(a,h)anthracene	1000	0.33	0.33	ND (0.11)	0.19	0.067 J	ND (0.12)	ND (0.12)	ND (0.11)
Dibenzofuran	210	59	7	ND (0.19)	0.12 J	0.049 J	ND (0.2)	ND (0.2)	ND (0.19)
Diethyl phthalate	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Dimethyl phthalate	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Di-n-butylphthalate (DBP)	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Di-n-octyl phthalate (DnOP)	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Fluoranthene	1000	100	100	0.062 J	3.1	0.96	0.08 J	ND (0.12)	ND (0.11)
Fluorene	386	100	30	ND (0.19)	0.1 J	0.058 J	ND (0.2)	ND (0.2)	ND (0.19)
Hexachlorobenzene	3.2	1.2	0.33	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)
Hexachlorobutadiene	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Hexachlorocyclopentadiene	NA	NA	NA	ND (0.55)	ND (0.53)	ND (0.53)	ND (0.57)	ND (0.57)	0.54 R
Hexachloroethane	NA	NA	NA	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)
Indeno(1,2,3-cd)pyrene	8.2	0.5	0.5	ND (0.15)	0.58	0.22	ND (0.16)	ND (0.16)	ND (0.15)
Isophorone	NA	NA	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)
Naphthalene	12	100	12	0.095 J	0.056 J	0.066 J	ND (0.2)	ND (0.2)	ND (0.19)
Nitrobenzene	NA	NA	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)
N-Nitrosodi-n-propylamine	NA	NA	NA	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
N-Nitrosodiphenylamine	NA	NA	NA	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)
Pentachlorophenol	0.8	6.7	0.8	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)
Phenanthrene	1000	100	100	0.073 J	3.1	0.8	0.074 J	ND (0.12)	ND (0.11)
Phenol	0.33	100	0.33	ND (0.19)	ND (0.18)	ND (0.19)	ND (0.2)	ND (0.2)	ND (0.19)
Pyrene	1000	100	100	0.055 J	2.8	0.82	0.074 J	ND (0.12)	ND (0.11)

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		Action Level		T					
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-7	SB-8	SB-8	SB-8	SB-8	SB-8
Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-7_12-14	SB-8 0-0.5	SB-8_1-2	SB-8_5-7	SB-8_9-11	SB-8_12-14
Sample Date	Objectives -	Residential Use	Use	06/22/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023
Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335921-05	L2336234-01	L2336234-02	L2336234-03	L2336234-04	L2336234-05
Sample Depth (bgs)	Groundwater	Objectives	Objectives	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)
Incurrence Commounds (mag/ligh)									
Inorganic Compounds (mg/kg)	NA	NA	NA	F940	4630	4700	2120	4000	2160
Aluminum	NA NA	NA NA	NA NA	5840 0.565 J	4620 ND (4.36) J		3120	4900 ND (4.89) J	2160 ND (4.54) J
Antimony Arsenic	16	16	13	2.73	8.42	ND (4.4) J 8.78	ND (4.85) J 1.35	2.42	2.31
Barium	820	400	350	44	247	153	66.8	66.7	9.19
Beryllium	47	72	7.2	0.42 J	0.199 J	0.15 J	0.104 J	0.373 J	0.09 J
Cadmium	7.5	4.3	2.5	0.137 J	0.384 J	1.74	ND (0.969)	ND (0.978)	ND (0.908)
Calcium	NA	NA	NA	12000	12500 J	24200 J	2400 J	1540 J	436 J
Chromium	NA	NA	NA	18 J	12.4	19.5	7.3	25	7.12
Cobalt	NA	NA	NA	8.11	4.37	6.35	3.32	9.64	2.51
Copper	1720	270	50	24.7	34.8	46.9	7.21	16.7	6.41
Iron	NA	NA	NA	12200	10200	12200	6150	9350	5460
Lead	450	400	63	21 J	406	1950	42.8	24.6	2.16 J
Magnesium	NA	NA	NA	3940	2760 J	2930 J	1780 J	2270 J	1170 J
Manganese	2000	2000	1600	381	202 J	215 J	159 J	268 J	92.6 J
Mercury	0.73	0.81	0.18	0.146 J+	2.31	1.31	ND (0.092)	ND (0.093)	ND (0.093)
Nickel	130	310	30	40.8 J	15.1	26.3	11.4	30.9	11.7
Potassium	NA	NA	NA	1290	613	905	468	650	390
Selenium	4	180	3.9	0.327 J	ND (1.74)	0.311 J	ND (1.94)	ND (1.96)	ND (1.82)
Silver	8.3	180	2	ND (0.459)	ND (0.436)	ND (0.44)	ND (0.485)	ND (0.489)	ND (0.454)
Sodium	NA	NA	NA	186 J	316	273	82.4 J	111 J	61.4 J
Thallium	NA	NA	NA	0.658 J	ND (1.74)	ND (1.76)	ND (1.94)	ND (1.96)	ND (1.82)
Vanadium	NA	NA	NA	17	12.9	18.1	9.9	12.6	8.77
Zinc	2480	10000	109	46.4	256	873	46.6	36.8	11.2
PCBs (mg/kg)									
Aroclor-1016 (PCB-1016)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1221 (PCB-1221)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1232 (PCB-1232)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1242 (PCB-1242)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1248 (PCB-1248)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1254 (PCB-1254)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1260 (PCB-1260)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1262 (PCB-1262)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Aroclor-1268 (PCB-1268)	NA	NA	NA	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Polychlorinated biphenyls (PCBs)	3.2	1	0.1	ND (0.0572)	ND (0.0555)	ND (0.0528)	ND (0.0604)	ND (0.0605)	ND (0.0543)
Other									
Total Solids (%)	NA	NA	NA	84.5	88.6	88.6	81.3	80.6	85.8
Pesticides (mg/kg)	4.	43	0.0000	ND (0.0045)	ND (0.0046)	ND (0.00176)	ND (0.00405)	ND (0.00404)	ND (0.00403)
4,4'-DDD	14	13	0.0033	ND (0.0018)	ND (0.0018)	ND (0.00176)	ND (0.00195)	ND (0.00194)	ND (0.00182)
4,4'-DDE	17	8.9	0.0033	ND (0.0018)				ND (0.00194)	ND (0.00182)
4,4'-DDT	136	7.9	0.0033	ND (0.0018)	ND (0.0018)	ND (0.00176)	ND (0.00195)	ND (0.00194)	ND (0.00182)
Aldrin alpha-BHC	0.19	0.097	0.005	ND (0.0018)	ND (0.0018) ND (0.00075)	ND (0.00176)	ND (0.00195)	ND (0.00194)	ND (0.00182)
alpha-Chlordane (cis)	0.02 2.9	0.48 4.2	0.02 0.094	ND (0.00075) ND (0.00225)	ND (0.00075) ND (0.00225)	ND (0.000735) ND (0.0022)	ND (0.000812) ND (0.00244)	ND (0.00081) ND (0.00243)	ND (0.00076) ND (0.00228)
beta-BHC	0.09	4.2 0.36	0.094	ND (0.00225) ND (0.0018)	ND (0.00225) ND (0.0018)	ND (0.0022) ND (0.00176)	ND (0.00244) ND (0.00195)	ND (0.00243) ND (0.00194)	ND (0.00228) ND (0.00182)
Chlordane	NA	NA	NA	ND (0.0018) ND (0.015)	ND (0.0018) ND (0.015)	ND (0.00176) ND (0.0147)	ND (0.00195) ND (0.0162)	ND (0.00194) ND (0.0162)	ND (0.00182) ND (0.0152)
delta-BHC	0.25	100	0.04	ND (0.013)	ND (0.013) ND (0.0018)	ND (0.0147) ND (0.00176)	ND (0.0102) ND (0.00195)	ND (0.0102) ND (0.00194)	ND (0.0132) ND (0.00182)
Dieldrin	0.25	0.2	0.04	ND (0.0018)	ND (0.0018) ND (0.00112)	ND (0.00176) ND (0.0011)	ND (0.00193) ND (0.00122)	ND (0.00194) ND (0.00122)	ND (0.00182) ND (0.00114)
Endosulfan I	102	24	2.4	ND (0.00112)	ND (0.00112)	ND (0.0011) ND (0.00176)	ND (0.00122) ND (0.00195)	ND (0.00122) ND (0.00194)	ND (0.00114)
Endosulfan II	102	24	2.4	ND (0.0018)	ND (0.0018)	ND (0.00176)	ND (0.00195)	ND (0.00194)	ND (0.00182)
Endosulfan sulfate	1000	24	2.4	ND (0.0015)	ND (0.00075)	ND (0.000735)	ND (0.000812)	ND (0.00081)	ND (0.00076)
Endrin	0.06	11	0.014	ND (0.00075)	ND (0.00075)	ND (0.000735)	ND (0.000812)	ND (0.00081)	ND (0.00076)
Endrin aldehyde	NA	NA	NA	ND (0.00225)	ND (0.00225)	ND (0.0022)	ND (0.00244)	ND (0.00243)	ND (0.00228)
Endrin ketone	NA	NA	NA	ND (0.0018)	ND (0.0018)	ND (0.00176)	ND (0.00195)	ND (0.00194)	ND (0.00182)
gamma-BHC (Lindane)	0.1	1.3	0.1	ND (0.00075)	ND (0.00075)	ND (0.000735)	ND (0.000812)	ND (0.00081)	ND (0.00076)
gamma-Chlordane (trans)	NA	NA	NA	ND (0.00225)	ND (0.00225)	ND (0.0022)	ND (0.00244)	ND (0.00243)	ND (0.00228)
Heptachlor	0.38	2.1	0.042	ND (0.0009)	ND (0.0009)	ND (0.000882)	ND (0.000975)	ND (0.000972)	ND (0.000912)
Heptachlor epoxide	NA	NA	NA	ND (0.00338)	ND (0.00337)	ND (0.00331)	ND (0.00366)	ND (0.00365)	ND (0.00342)
Methoxychlor	NA	NA	NA	ND (0.00338)	ND (0.00337)	ND (0.00331)	ND (0.00366)	ND (0.00365)	ND (0.00342)
Toxaphene	NA	NA	NA	ND (0.0338)	ND (0.0337)	ND (0.0331)	ND (0.0366)	ND (0.0365)	ND (0.0342)

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN SOIL

558 SACKETT STREET BROOKLYN, NEW YORK

FILE NO. 0206384

		Action Level							
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-7	SB-8	SB-8	SB-8	SB-8	SB-8
Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-7_12-14	SB-8_0-0.5	SB-8_1-2	SB-8_5-7	SB-8_9-11	SB-8_12-14
Sample Date	Objectives -	Residential Use	Use	06/22/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023	06/23/2023
Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2335921-05	L2336234-01	L2336234-02	L2336234-03	L2336234-04	L2336234-05
Sample Depth (bgs)	Groundwater	Objectives	Objectives	12 - 14 (ft)	0 - 0.5 (ft)	1 - 2 (ft)	5 - 7 (ft)	9 - 11 (ft)	12 - 14 (ft)
PFAS (ng/g)									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	NA	ND (0.764)	ND (0.776)	ND (0.802)	ND (0.772)	ND (0.768)	ND (0.812)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	NA	ND (0.764)	ND (0.776)	ND (0.802)	ND (0.772)	ND (0.768)	ND (0.812)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorobutanesulfonic acid (PFBS)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorobutanoic acid (PFBA)	NA	NA	NA	ND (0.764)	ND (0.776)	ND (0.802)	ND (0.772)	ND (0.768)	ND (0.812)
Perfluorodecanesulfonic acid (PFDS)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorodecanoic acid (PFDA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorododecanoic acid (PFDoDA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluoroheptanesulfonic acid (PFHpS)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluoroheptanoic acid (PFHpA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorohexanesulfonic acid (PFHxS)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorohexanoic acid (PFHxA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorononanoic acid (PFNA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorooctane sulfonamide (PFOSA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorooctanesulfonic acid (PFOS)	1	44	0.88	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorooctanoic acid (PFOA)	0.8	33	0.66	ND (0.191)	ND (0.194)	ND (0.2)	0.093 J	0.061 J	ND (0.203)
Perfluoropentanoic acid (PFPeA)	NA	NA	NA	ND (0.382)	ND (0.388)	ND (0.401)	ND (0.386)	ND (0.384)	ND (0.406)
Perfluorotetradecanoic acid (PFTeDA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluorotridecanoic acid (PFTrDA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
Perfluoroundecanoic acid (PFUnDA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	ND (0.193)	ND (0.192)	ND (0.203)
US EPA PFAS (PFOS + PFOA)	NA	NA	NA	ND (0.191)	ND (0.194)	ND (0.2)	0.093 J	0.061 J	ND (0.203)

ABBREVIATIONS AND NOTES:

mg/kg: milligram per kilogram ng/g: nanogram per gram

-: Not Analyzed

bgs: below ground surface

ft: feet

J: Value is estimated.

J+: Value is estimated, high bias

J-: Value is estimated, low bias

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

R: Rejected

- For test methods used, see the laboratory data sheets.
- Soil analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and

Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (SCO), Restricted-Use Residential SCOs, and Protection of Groundwater SCO's.

- **Bold italic** values indicate an exceedance of the Protection of Groundwater Criteria.
- Grey shading indicates an exceedance of the Unrestricted Use Soil Cleanup Objectives.

- Yellow shading indicates an exceedance of the Restricted Use Residential Soil Cleanup Objectives.

REMEDIAL INVESTIGATION RESULTS - SUPPLEMENTAL ANALYTICAL RESULTS IN SOIL 558 SACKETT STREET

558 SACKETT STREET BROOKLYN, NEW YORK

		Action Level																
Location Nam	e Restricted Use	NY Part 375	NY Part 375	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A-S1	SB-3A	SB-3A	SB-3A	SB-3A	SB-3A	SB-3A
Sample Nam	e Soil Cleanup	Restricted	Unrestricted	SB-2A_0-0.5	SB-2A_1-3	SB-2A_3-5	SB-2A_5-7	SB-2A_7-9	SB-2A_9-11	SB-2A_12-14	DUP03_20240326	SB-2A-S1_11-11.5	SB-3A_0-0.5	SB-3A_1-3	SB-3A_3-5	SB-3A_5-7	SB-3A_7-9	SB-3A_9-11
Sample Dat	e Objectives -	Residential Use	Use	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
Lab Sample I	D Protection of	Soil Cleanup	Soil Cleanup	L2416482-01	L2416482-02	L2416482-03	L2416482-04	L2416482-05	L2416482-06	L2416482-07	L2416482-74	L2416482-76	L2416482-50	L2416482-51	L2416482-52	L2416482-53	L2416482-54	L2416482-55
Sample Depth (bg	s) Groundwater	Objectives	Objectives	0 - 0.5 (ft)	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)	7 - 9 (ft)	9 - 11 (ft)	12 - 14 (ft)	12 - 14 (ft)	11 - 11.5 (ft)	0 - 0.5 (ft)	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)	7 - 9 (ft)	9 - 11 (ft)
Volatile Organic Compounds (mg/kg)																		
1,1,1,2-Tetrachloroethane	NA	NA	NA	_	_	_	_	_	_	_	_	ND (4.3)	_	_	_	_	_	_
1,1,1-Trichloroethane	0.68	100	0.68	_	_	_	_	_		_		ND (4.3)	_	_		_	_	
1,1,2,2-Tetrachloroethane	NA	NA	NA	_	_	_	_	_		_		ND (4.3)	_	_		_	_	
1,1,2-Trichloroethane	NA NA	NA NA	NA NA	_	_	_	_	_	_	_	_	ND (8.6)	_	_	_	_	_	_
1,1-Dichloroethane	0.27	26	0.27	_	_	_	_	_	_	_	_	ND (8.6)	_	_	_	_	_	_
1,1-Dichloroethene	0.33	100	0.33	_	_	_	_	_	_	_	_	ND (8.6)	_	_	_	_	_	_
1,1-Dichloropropene	NA	NA NA	NA	_	_	_	_	_	_	_	_	ND (4.3)	_	_	_	_	_	_
1,2,3-Trichlorobenzene	NA.	NA NA	NA NA	_	_	_	_	_	_	_	_	ND (4.5)	_	_	_	_	_	_
1,2,3-Trichloropropane	NA.	NA NA	NA NA	_	_	_	_	_	_	_	_	ND (17)	_	_	_	_	_	_
1,2,4,5-Tetramethylbenzene	NA.	NA	NA NA	_	_	_	_	_	_	_	_	14 J	_	_	_	_	_	_
1,2,4-Trichlorobenzene	NA NA	NA NA	NA NA	_	_	_	_	_	_		_	ND (17)	-	_	_	_	_	_
1,2,4-Trimethylbenzene	3.6	52	3.6	_	_	_	_	_	_	_		100	-			-	_	_
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	_	_		_	_	_	_		ND (26)	-			-	_	_
1,2-Dibromoethane (Ethylene Dibromide)	NA NA	NA NA	NA NA	_	_	_	_	_	_	_	_	ND (8.6)	_	_	_	_	_	_
1,2-Dichlorobenzene	1.1	100	1.1	_		_	_	_	_	_	_	ND (0.0)	_	_		_	_	_
1,2-Dichloroethane	0.02	3.1	0.02									ND (8.6)	_			_		
1,2-Dichloroethane (total)	NA	NA	NA	-	_	-	-	_	-	_	-	ND (8.6)	-	_	_	-	-	
1,2-Dichloropropane	NA NA	NA NA	NA NA	-	_	-	-	-	_	-	-	ND (8.6)	-	-	-	-	-	-
1,3,5-Trimethylbenzene	8.4	52	8.4	-	_	-	-	_	-	_	-	27	-	_	_	-	-	
		49	2.4	-	_	-	-	-	_	-	-		-	-	-	-	-	-
1,3-Dichloropenana	2.4 NA	NA	NA	-	_	-	-	-	_	-	-	ND (17) ND (17)	-	-	-	-	-	-
1,3-Dichloropropane	NA NA	NA NA	NA NA	-	_	-	-	-	_	-	-		-	-	-	-	-	-
1,3-Dichloropropene	1.8	13		-	_	-	-	-	_	-	-	ND (4.3)	-	-	-	-	-	-
1,4-Dichlorobenzene	NA	NA	1.8 NA	-	_	-	-	-	_	-	-	ND (17) 37	-	-	-	-	-	-
1,4-Diethylbenzene 1,4-Dioxane	0.1	13	0.1	-	_	-	-	-	_	-	-	ND (690) J	-	-	-	-	-	-
2,2-Dichloropropane	NA	NA	NA	-	_	-	-	-	_	-	-	ND (690) J ND (17)	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	0.12	100	0.12	-	_	-	-	-	_	-	-	ND (86) J	-	-	-	-	-	-
2-Chlorotoluene	NA	NA	NA	-	_	-	-	-	_	-	-	ND (17)	-	-	-	-	-	-
	NA NA	NA NA	NA NA	-	_	-	-	_	-	_	-	ND (86) J	-	_	_	-	-	
2-Hexanone (Methyl Butyl Ketone) 2-Phenylbutane (sec-Butylbenzene)	11	100	11	-	_	-	-	-	_	-	-	ND (8.6)	-	-	-	-	-	-
4-Chlorotoluene	NA	NA	NA	-	_	-	-	_	-	_	-	ND (8.0) ND (17)	-	_	_	-	-	
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	NA NA	NA NA	NA NA	-	_	-	-	_	-	_	-	60	-	_	_	-	-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA NA	NA NA	NA NA	-	_	-	-	_	-	_	-	ND (86)	-	_	_	-	-	
Acetone	0.05	100	0.05	-	_	-	-	_	-	_	-	ND (86)	-	_	_	-	-	
Acrylonitrile	NA	NA	NA	_	_	_	_	_	_	_		ND (86)	_	_	_	_	_	
Benzene	0.06	4.8	0.06	-	_	-	-	_	-	_	-	ND (34) ND (4.3)	-	_	_	-	-	
Bromobenzene	NA	NA	NA	_	_	_	_	_		_		ND (4.5)	_	_		_	_	
Bromodichloromethane	NA NA	NA NA	NA NA	_	_	_	_	_	_	_		ND (17) ND (4.3)	_	_	_	_	_	
Bromoform	NA NA	NA NA	NA NA	-	_	-	-	_	-	_	-	ND (4.3) ND (34)	-	_	_	-	-	
Bromomethane (Methyl Bromide)	NA NA	NA NA	NA NA	-	_	-	-	_	-	_	-	ND (34) ND (17)	-	_	_	-	-	
*	NA NA	NA NA	NA NA	-	_	-	-	_	-	_	-	ND (17)	-	_	_	-	-	
Carbon disulfide	0.76		0.76	-	_	-	-	-	_	-	-	, ,	-	-	-	-	-	-
Carbon tetrachloride Chlorobenzene	1.1	2.4 100	1.1	-	_	-	-	_	_		-	ND (8.6) ND (4.3)	-	1 -	_	-	_	-
Chlorobromomethane	NA	NA	NA	-	_	-	-	_	_		-	ND (4.3) ND (17)	-	1 -	_	-	_	-
	NA NA	NA NA	NA NA	-	_	-	-	_	_		-		-	1 -	_	-	_	-
Chloroform (Trichloromothano)	0.37	NA 49	0.37	-	_	-	-	_	_		-	ND (17) ND (13)	-	_	_	-	_	1
Chloroform (Trichloromethane)	NA	NA	0.37 NA	-	_	-	-	_	_		-	ND (13) ND (34)	-	1 -	_	-	_	-
Chloromethane (Methyl Chloride)		100		-	_	-	-	_	_		-		-	1 -	_	-	_	-
cis-1,2-Dichloroethene	0.25 NA	NA	0.25 NA	-	_	-	-	_	_		-	ND (8.6)	-	1 -	_	-	_	-
cis-1,3-Dichloropropene		NA NA	NA NA	-	-	-	-	-	-	-	-	ND (4.3) 9.1	-	_	-	-	_	-
Cymene (p-Isopropyltoluene)	NA																	

REMEDIAL INVESTIGATION RESULTS - SUPPLEMENTAL ANALYTICAL RESULTS IN SOIL 558 SACKETT STREET

558 SACKETT STREET BROOKLYN, NEW YORK

		Action Level																
Location Name	Restricted Use	NY Part 375	NY Part 375	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A-S1	SB-3A	SB-3A	SB-3A	SB-3A	SB-3A	SB-3A
Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-2A_0-0.5	SB-2A_1-3	SB-2A_3-5	SB-2A_5-7	SB-2A_7-9	SB-2A_9-11	SB-2A_12-14	DUP03_20240326	SB-2A-S1_11-11.5	SB-3A_0-0.5	SB-3A_1-3	SB-3A_3-5	SB-3A_5-7	SB-3A_7-9	SB-3A_9-11
Sample Date	Objectives -	Residential Use	Use	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2416482-01	L2416482-02	L2416482-03	L2416482-04	L2416482-05	L2416482-06	L2416482-07	L2416482-74	L2416482-76	L2416482-50	L2416482-51	L2416482-52	L2416482-53	L2416482-54	L2416482-55
Sample Depth (bgs) Groundwater	Objectives	Objectives	0 - 0.5 (ft)	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)	7 - 9 (ft)	9 - 11 (ft)	12 - 14 (ft)	12 - 14 (ft)	11 - 11.5 (ft)	0 - 0.5 (ft)	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)	7 - 9 (ft)	9 - 11 (ft)
Dibromomethane	NA	NA	NA	-	-	-	-	-	-	-	=	ND (17)	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	NA	NA	NA	-	-	-	-	-	-	-	-	ND (86)	-	-	-	-	-	-
Ethyl Ether	NA	NA	NA	-	-	-	-	-	-	-	-	ND (17)	-	-	-	-	-	-
Ethylbenzene	1	41	1	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-
Hexachlorobutadiene	NA	NA	NA	-	-	-	-	-	-	-	=	ND (34)	-	-	-	-	-	-
Isopropylbenzene (Cumene)	NA	NA	NA	-	-	-	-	-	-	-	=	16	-	-	-	-	-	-
m,p-Xylenes	NA	NA 100	NA	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-
Methyl Tert Butyl Ether (MTBE)	0.93	100	0.93	-	-	-	-	-	-	-	-	ND (17)	-	-	-	-	-	-
Methylene chloride (Dichloromethane) Naphthalene	0.05 12	100 100	0.05 12	-	-	-	-	-	-	-	-	ND (43) 3300	-	-	-	-	-	-
n-Butylbenzene	12	100	12	-	-	_	-	-	-	-	-	3.6 J	-	-	-	-	_	-
n-Propylbenzene	3.9	100	3.9	_		_	_	_	_	_		9.5	_		_		_	_
o-Xylene	NA	NA	NA	_		_	_	_	_	_	_	24	_	_		_	_	
Styrene	NA NA	NA NA	NA NA	_	_	_	_	_	_	_	_	ND (8.6)	_	_	_	_	_	_
tert-Butylbenzene	5.9	100	5.9	-	_	_	_	-	_	_	-	ND (8.0) ND (17)	_	_	_	-	_	_
Tetrachloroethene	1.3	19	1.3	-	_	_	_	-	_	_	-	ND (4.3)	_	_	_	-	_	_
Toluene	0.7	100	0.7	-	_	_	_	-	_	_	-	ND (4.5)	_	_	_	-	_	_
trans-1,2-Dichloroethene	0.19	100	0.19	-	-	_	_	_	_	_	-	ND (0.0)	-	_	_	-	_	-
trans-1,3-Dichloropropene	NA	NA	NA NA	-	-	-	-	-	-	_	-	ND (8.6)	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	NA	NA	NA	-	-	-	-	-	-	-	-	ND (43)	-	-	-	-	-	-
Trichloroethene	0.47	21	0.47	-	-	-	-	-	-	-	-	ND (4.3)	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	NA	NA	NA	-	-	-	-	-	-	-	-	ND (34)	-	-	-	-	-	-
Vinyl acetate	NA	NA	NA	-	-	-	-	-	-	-	-	ND (86)	-	-	-	-	-	-
Vinyl chloride	0.02	0.9	0.02	-	-	-	-	-	-	-	=	ND (8.6)	-	-	-	-	-	-
Xylene (Total)	1.6	100	0.26	-	-	-	-	-	-	-	-	56	1	-	-	-	-	-
Semi-Volatile Organic Compounds (mg/kg)																		
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	_	_	_	_	_	_	_	_	ND (0.24)	_	_	_	_	_	_
1,2,4-Trichlorobenzene	NA NA	NA NA	NA NA	_	_	_	_	_	_	_	-	ND (0.24)	-	_	_	-	_	_
1,2-Dichlorobenzene	1.1	100	1.1	_	_	_	_	_	_	_	-	ND (0.24)	-	_	_	-	_	_
1,3-Dichlorobenzene	2.4	49	2.4	-	_	_	_	_	-	_	-	ND (0.24)	-	_	_	_	_	_
1,4-Dichlorobenzene	1.8	13	1.8	-	_	-	-	-	-	-	-	ND (0.24)	-	-	_	-	-	_
1,4-Dioxane	0.1	13	0.1	-	-	-	-	-	-	-	=	ND (0.036) J	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.29)	-	-	-	-	-	-
2,4,5-Trichlorophenol	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2,4,6-Trichlorophenol	NA	NA	NA	-	-	-	-	-	-	-	=	ND (0.14)	-	-	-	-	-	-
2,4-Dichlorophenol	NA	NA	NA	-	-	-	-	-	-	-	=	ND (0.21)	-	-	-	-	-	-
2,4-Dimethylphenol	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2,4-Dinitrophenol	NA	NA	NA	-	-	-	-	-	-	-	-	ND (1.1)	-	-	-	-	-	-
2,4-Dinitrotoluene	NA	NA	NA	-	-	-	-	-	-	-	=	ND (0.24)	-	-	-	-	-	-
2,6-Dinitrotoluene	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2-Chloronaphthalene	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2-Chlorophenol	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2-Methylnaphthalene	NA	NA	NA	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-
2-Methylphenol (o-Cresol)	0.33	100	0.33	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2-Nitroaniline	NA	NA	NA NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
2-Nitrophenol 3&4-Methylphenol	NA NA	NA NA	NA NA	-	-	_	_	-	_	_	-	ND (0.51) ND (0.34)	-	-	_	-	_	-
3,3'-Dichlorobenzidine	NA NA	NA NA	NA NA	-	-	_	-	-	-	-	-	ND (0.34)	-	-	-	-	-	-
3-Nitroaniline	NA NA	NA NA	NA NA	_		_	_	_	_	_		ND (0.24)	-		_		_	
4,6-Dinitro-2-methylphenol	NA NA	NA NA	NA NA	_		_	_	_	_	_	_	ND (0.62)	- -	_	_	_	_	_
4-Bromophenyl phenyl ether (BDE-3)	NA NA	NA NA	NA NA	-	_	_	_	-	_	_	-	ND (0.24)	_	_	_	-	_	_
4-Chloro-3-methylphenol	NA NA	NA NA	NA NA	-	_	_	_	-	_	_	-	ND (0.24)	_	_	_	-	_	_
4-Chloroaniline	NA NA	NA NA	NA NA	-	-	_	_	_	_	_	-	ND (0.24)	-	_	_	-	_	-
4-Chlorophenyl phenyl ether	NA	NA	NA	_	-	_	-	-	_	-	-	ND (0.24)	-	-	-	-	-	_
4-Nitroaniline	NA NA	NA NA	NA	-	-	-	-	_	-	-	-	ND (0.24)	-	_	-	-	-	-
4-Nitrophenol	NA	NA	NA	-	-	-	-	-	-	_	-	ND (0.33)	-	-	-	-	-	-
Acenaphthene	98	100	20	-	-	-	-	-	-	-	-	4.5	-	-	-	-	-	-
Acenaphthylene	107	100	100	-	-	-	-	-	-	-	-	0.78	-	-	-	-	-	-
1	1	1			1	l	1	1	Ī	1	I			1	_		Ī	1
Acetophenone	NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	- 1	-	-	-

REMEDIAL INVESTIGATION RESULTS - SUPPLEMENTAL ANALYTICAL RESULTS IN SOIL

558 SACKETT STREET BROOKLYN, NEW YORK

FILE NO. 0206384

			Action Level																
	Location Name	Restricted Use	NY Part 375	NY Part 375	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A	SB-2A-S1	SB-3A	SB-3A	SB-3A	SB-3A	SB-3A	SB-3A
	Sample Name	Soil Cleanup	Restricted	Unrestricted	SB-2A_0-0.5	SB-2A_1-3	SB-2A_3-5	SB-2A_5-7	SB-2A_7-9	SB-2A_9-11	SB-2A_12-14	DUP03_20240326	SB-2A-S1_11-11.5	SB-3A_0-0.5	SB-3A_1-3	SB-3A_3-5	SB-3A_5-7	SB-3A_7-9	SB-3A_9-11
	Sample Date	Objectives -	Residential Use	Use	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024	03/26/2024
	Lab Sample ID	Protection of	Soil Cleanup	Soil Cleanup	L2416482-01	L2416482-02	L2416482-03	L2416482-04	L2416482-05	L2416482-06	L2416482-07	L2416482-74	L2416482-76	L2416482-50	L2416482-51	L2416482-52	L2416482-53	L2416482-54	L2416482-55
	Sample Depth (bgs)	Groundwater	Objectives	Objectives	0 - 0.5 (ft)	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)	7 - 9 (ft)	9 - 11 (ft)	12 - 14 (ft)	12 - 14 (ft)	11 - 11.5 (ft)	0 - 0.5 (ft)	1 - 3 (ft)	3 - 5 (ft)	5 - 7 (ft)	7 - 9 (ft)	9 - 11 (ft)
Benzo(a)anthracene		1	1	1	-	-	-	-	-	-	-	-	0.98	=	-	-	-	-	-
Benzo(a)pyrene		22	1	1	-	-	-	-	-	-	-	-	0.98	-	-	-	-	-	-
Benzo(b)fluoranthene		1.7	1	1	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-
Benzo(g,h,i)perylene		1000	100	100	-	-	-	-	-	-	-	-	0.46	-	-	-	-	-	-
Benzo(k)fluoranthene		1.7	3.9	0.8	-	-	-	-	-	-	-	-	0.21	-	-	-	-	-	-
Benzoic acid		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.77)	-	-	-	-	-	-
Benzyl Alcohol		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Biphenyl		NA	NA	NA	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-
bis(2-Chloroethoxy)methane		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.26)	-	-	-	-	-	-
bis(2-Chloroethyl)ether		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.21)	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate		NA	NA	NA	-	-	-	-	-	-	-	-	0.18 J	-	-	-	-	-	-
Butyl benzylphthalate (BBP)		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Carbazole		NA	NA	NA	-	-	-	-	-	-	-	-	0.066 J	-	-	-	-	-	-
Chrysene		1	3.9	1	-	-	-	-	-	-	-	-	0.86	-	-	-	-	-	-
Dibenz(a,h)anthracene		1000	0.33	0.33	-	-	-	-	-	-	-	-	0.089 J	-	-	-	-	-	-
Dibenzofuran		210	59	7	-	-	-	-	-	-	-	-	0.17 J	-	-	-	-	-	-
Diethyl phthalate		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Dimethyl phthalate		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Di-n-butylphthalate (DBP)		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Fluoranthene		1000	100	100	-	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-
Fluorene		386	100	30	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-
Hexachlorobenzene		3.2	1.2	0.33	-	-	-	-	-	-	-	-	ND (0.14)	-	-	-	-	-	-
Hexachlorobutadiene		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Hexachlorocyclopentadiene		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.68)	-	-	-	-	-	-
Hexachloroethane		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.19)	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene		8.2	0.5	0.5	-	-	-	-	-	-	-	-	0.39	-	-	-	-	-	-
Isophorone		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.21)	-	-	-	-	-	-
Naphthalene		12	100	12	-	-	-	-	-	-	-	-	120	-	-	-	-	-	-
Nitrobenzene		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.21)	-	-	-	-	-	-
N-Nitrosodi-n-propylamine		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
N-Nitrosodiphenylamine		NA	NA	NA	-	-	-	-	-	-	-	-	ND (0.19)	-	-	-	-	-	-
Pentachlorophenol		0.8	6.7	0.8	-	-	-	-	-	-	-	-	ND (0.19)	-	-	-	-	-	-
Phenanthrene		1000	100	100	-	-	-	-	-	-	-	-	4.8	-	-	-	-	-	-
Phenol		0.33	100	0.33	-	-	-	-	-	-	-	-	ND (0.24)	-	-	-	-	-	-
Pyrene		1000	100	100	-	-	-	-	-	-	-	-	2.7	-	-	-	-	-	-
Inorganic Compounds (mg/kg)																			
Lead		450	400	63	1250	922	1740	864	38.9	32.1	302 J	109 J	_	849	94.4	32.1	1900	32.7	34
Mercury		0.73	0.81	0.18	1.26	2.14	3	11	0.091	ND (0.084)	0.383	0.493		2.64	0.323	0.073 J	41.3	0.091	0.091
		0.73	0.01	0.10	1.20	2.14	3	11	0.031	140 (0.004)	0.363	0.453	-	2.04	0.323	0.0733	41.3	0.031	0.031
TCLP Inorganic Compounds (mg	;/L)				4.24	0.252.1	0.742	0.3541	0.500	0.0424.1	0.0567.1	0.0477.1		4.05	0.220.1	0.442.1	0.040	0.4241	0.0455.1
Lead		NA NA	NA	NA NA	1.24	0.362 J	0.743	0.354 J	0.509	0.0424 J	0.0567 J	0.0477 J	-	1.06	0.329 J	0.143 J	0.918	0.124 J	0.0455 J
Mercury		NA	NA	NA	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	-	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)	ND (0.001)
Other																			
Total Solids (%)		NA	NA	NA	86.1	79.6	80.6	77.5	85.9	78	57.1	72.3	68.2	86.4	82.4	89.3	84.4	88.1	88.1

ABBREVIATIONS AND NOTES:

mg/kg: milligram per kilogram

mg/L: milligram per liter
-: Not Analyzed

bgs: below ground surface

J: Value is estimated. ft: feet

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.
- Soil analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and
- Regulations~(NYCRR)~Part~375~Restricted-Use~Residential~SCOs~and~Protection~of~Groundwater~SCO's.
- $\hbox{-} \textit{\textbf{Bold italic}} \textit{ values indicate an exceedance of the } \textit{\textbf{Protection of Groundwater Criteria}.$
- Grey shading indicates an exceedance of the Unrestricted Use Soil Cleanup Objectives.
- Yellow shading indicates an exceedance of the Restricted Use Residential Soil Cleanup Objectives.

TABLE 3
REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN GROUNDWATER
SACKETT HEIGHTS LLC
558 SACKETT STREET

BROOKLYN, NEW YORK

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	anation Nome	Action Level	NAVA / 1	NA1A/ 2	NA1A/ 2	NAVA / 2	DANA/ 4
'	ocation Name. Sample Name	New York TOGS	MW-1 MW-1-20230717	MW-2 DUP01-20230706	MW-2 MW-2-20230706	MW-3 MW-3-20230717	MW-4 MW-4-20230717
	Sample Date	111 Ambient	07/17/2023	07/06/2023	07/06/2023	07/17/2023	07/17/2023
	Sample Bate	Water Quality	L2340792-01	L2338623-02	L2338623-01	L2340792-02	L2340792-03
	Lab Sample ID	Standards	L2343860-03	L2343860-02	L2343860-01	L2343860-04	L2343860-05
Volatile Organic Compounds (ug/L)							
1,1,1,2-Tetrachloroethane		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,1,1-Trichloroethane		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,1,2,2-Tetrachloroethane		5	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane		1	ND (1.5)	ND (7.5)	ND (7.5)	ND (1.5)	ND (1.5)
1,1-Dichloroethane		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,1-Dichloroethene		5	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	ND (0.5)
1,1-Dichloropropene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,2,3-Trichlorobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,2,3-Trichloropropane		0.04	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,2,4,5-Tetramethylbenzene		5	4.1	8.7 J	17	9.9	ND (2)
1,2,4-Trichlorobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,2,4-Trimethylbenzene		5 0.04	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,2-Dibromo-3-chloropropane (DBCP) 1,2-Dibromoethane (Ethylene Dibromide)		0.004	ND (2.5) ND (2)	ND (12) ND (10)	ND (12) ND (10)	ND (2.5) ND (2)	ND (2.5) ND (2)
1,2-Distribution (Ethylene Distribution)		3	ND (2) ND (2.5)	ND (10) ND (12)	ND (10) ND (12)	ND (2) ND (2.5)	ND (2.5)
1,2-Dichloroethane		0.6	1.3	ND (2.5)	1.7 J	ND (0.5)	ND (0.5)
1,2-Dichloroethene (total)		NA	ND (2.5)	ND (12)	ND (12)	ND (2.5)	2.5
1,2-Dichloropropane		1	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)
1,3,5-Trimethylbenzene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,3-Dichlorobenzene		3	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,3-Dichloropropane		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,3-Dichloropropene		0.4	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	ND (0.5)
1,4-Dichlorobenzene		3	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
1,4-Diethylbenzene		NA 0.35	ND (2)	ND (10)	ND (10)	2	ND (2)
1,4-Dioxane 2,2-Dichloropropane		0.35 5	ND (250)	ND (1200)	ND (1200) ND (12)	ND (250) ND (2.5)	ND (250)
2-Butanone (Methyl Ethyl Ketone)		50	ND (2.5) ND (5)	ND (12) ND (25)	ND (12) ND (25)	ND (2.3) ND (5)	ND (2.5) ND (5)
2-Chlorotoluene		5	ND (2.5)	ND (23) ND (12)	ND (23)	ND (3)	ND (2.5)
2-Hexanone (Methyl Butyl Ketone)		50	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)
2-Phenylbutane (sec-Butylbenzene)		5	ND (2.5)	ND (12)	ND (12)	1.1 J	ND (2.5)
4-Chlorotoluene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)		NA	ND (2)	ND (10)	ND (10)	ND (2)	ND (2)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)		NA	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)
Acetone		50	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)
Acrylonitrile		5	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)
Benzene		1	0.99	7.3	8.8	ND (0.5)	ND (0.5)
Bromobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Bromodichloromethane Bromoform		50 50	ND (0.5) ND (2)	ND (2.5) ND (10)	ND (2.5) ND (10)	ND (0.5) ND (2)	ND (0.5) ND (2)
Bromomethane (Methyl Bromide)		5	ND (2) ND (2.5)	ND (10) ND (12)	ND (10) ND (12)	ND (2) ND (2.5)	ND (2.5)
Carbon disulfide		60	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)
Carbon tetrachloride		5	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	ND (0.5)
Chlorobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Chlorobromomethane		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Chloroethane		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Chloroform (Trichloromethane)		7	0.8 J	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Chloromethane (Methyl Chloride)		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
cis-1,2-Dichloroethene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	2.5
cis-1,3-Dichloropropene		0.4	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	ND (0.5)
Cymene (p-Isopropyltoluene) Dibromochloromethane		5 50	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Dibromocnioromethane Dibromomethane		50 5	ND (0.5) ND (5)	ND (2.5) ND (25)	ND (2.5) ND (25)	ND (0.5) ND (5)	ND (0.5) ND (5)
Dichlorodifluoromethane (CFC-12)		5	ND (5)	ND (25)	ND (25) ND (25)	ND (5) ND (5)	ND (5)
Ethyl Ether		NA NA	ND (3) ND (2.5)	ND (23) ND (12)	ND (23) ND (12)	ND (3) ND (2.5)	ND (3) ND (2.5)
Ethylbenzene		5	1.1 J	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Hexachlorobutadiene		0.5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Isopropylbenzene (Cumene)		5	1.9 J	8.7 J	15	5.7	ND (2.5)
m,p-Xylenes		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Methyl Tert Butyl Ether (MTBE)		10	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Methylene chloride (Dichloromethane)		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Naphthalene		10	8.9	ND (12)	ND (12)	ND (2.5)	ND (2.5)
n-Butylbenzene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
n-Propylbenzene		5	ND (2.5)	4.6 J	12 ND (13)	8.2	ND (2.5)
o-Xylene Styrene		5 5	1 J ND (2.5)	ND (12) ND (12)	ND (12) ND (12)	ND (2.5) ND (2.5)	ND (2.5) ND (2.5)
tert-Butylbenzene		5	ND (2.5) ND (2.5)	ND (12) ND (12)	ND (12) ND (12)	ND (2.5) ND (2.5)	ND (2.5) ND (2.5)
Tetrachloroethene		5	ND (2.5)	ND (12) ND (2.5)	ND (12) ND (2.5)	1.2	ND (2.5)
Toluene		5	ND (2.5)	ND (12)	ND (2.3)	ND (2.5)	ND (2.5)
trans-1,2-Dichloroethene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
trans-1,3-Dichloropropene		0.4	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	ND (0.5)
trans-1,4-Dichloro-2-butene		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Trichloroethene		5	ND (0.5)	ND (2.5)	ND (2.5)	ND (0.5)	0.97
Trichlorofluoromethane (CFC-11)		5	ND (2.5)	ND (12)	ND (12)	ND (2.5)	ND (2.5)
Vinyl acetate		NA	ND (5)	ND (25)	ND (25)	ND (5)	ND (5)
Vinyl chloride		2	ND (1)	ND (5)	ND (5)	ND (1)	ND (1)
Xylene (Total)		5	1 J	ND (12)	ND (12)	ND (2.5)	ND (2.5)

ABBREVIATIONS AND NOTES:

μg/L: micrograms per liter ng/L: nanogram per liter

-: Not Analyzed bgs: below ground surface

ft: feet

J: Value is estimated.
J+: Value is estimated, biased high

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit R: Rejected

- For test methods used, see the laboratory data sheets.
- Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Standards.
- Bold indicates an exceedance of AWQS criteria.

TABLE 3 REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN GROUNDWATER

SACKETT HEIGHTS LLC BROOKLYN, NEW YORK

Action Level MW-1 MW-2 MW-2 MW-3 MW-4 New York TOGS Sample Nam MW-1-20230717 DUP01-20230706 MW-2-20230706 MW-3-20230717 MW-4-20230717 111 Ambient Sample Date 07/17/2023 07/06/2023 07/06/2023 07/17/2023 07/17/2023 Water Quality L2340792-01 L2338623-02 L2338623-01 L2340792-02 L2340792-03 Standards L2343860-05 Lab Sample II L2343860-03 L2343860-02 L2343860-01 L2343860-04 Semi-Volatile Organic Compounds (ug/L) 1.2.4.5-Tetrachlorobenzene ND (10) ND (10) ND (10) ND (10) ND (10) 1,2,4-Trichlorobenzene 5 ND (5) ND (5) ND (5) ND (5) ND (5) ND (2) ND (2) 1,2-Dichlorobenzene 3 ND (2) ND (2) ND (2) 1,3-Dichlorobenzene ND (2) ND (2) ND (2) ND (2) 3 ND (2) 1,4-Dichlorobenzene ND (2) ND (2) ND (2) ND (2) ND (2) 2,2'-oxybis(1-Chloropropane) ND (2) ND (2) ND (2) ND (2) ND (2) 2,4,5-Trichlorophenol NA ND (5) ND (5) ND (5) ND (5) ND (5) 2,4,6-Trichlorophenol NA ND (5) ND (5) ND (5) ND (5) ND (5) 2,4-Dichlorophenol ND (5) ND (5) ND (5) ND (5) ND (5) 2,4-Dimethylphenol 50 ND (5) ND (5) ND (5) ND (5) ND (5) 2,4-Dinitrophenol 10 ND (20) ND (20) ND (20) ND (20) ND (20) 2,4-Dinitrotoluene ND (5) ND (5) 5 ND (5) ND (5) ND (5) 2,6-Dinitrotoluene ND (5) ND (5) ND (5) ND (5) ND (5) 2-Chlorophenol NA ND (2) ND (2) ND (2) ND (2) ND (2) 2-Methylphenol (o-Cresol) NA ND (5) ND (5) ND (5) ND (5) ND (5) 2-Nitroaniline ND (5) ND (5) ND (5) ND (5) ND (5) 2-Nitrophenol NA ND (10) ND (10) ND (10) ND (10) ND (10) 3&4-Methylphenol NA ND (5) ND (5) ND (5) ND (5) ND (5) 3,3'-Dichlorobenzidine 5 ND (5) ND (5) 5 R ND (5) 3-Nitroaniline 4,6-Dinitro-2-methylphenol NA ND (10) ND (10) ND (10) ND (10) ND (10) -Bromophenyl phenyl ether (BDE-3) NA ND (2) ND (2) ND (2) ND (2) ND (2) 4-Chloro-3-methylphenol NA ND (2) ND (2) ND (2) ND (2) ND (2) 4-Chloroaniline 5 ND (5) ND (5) ND (5) 4-Chlorophenyl phenyl ether NA ND (2) ND (2) ND (2) ND (2) ND (2) 4-Nitroaniline ND (5) ND (5) 5 R ND (5) ND (5) 4-Nitrophenol NA ND (10) ND (10) ND (10) ND (10) ND (10) ND (5) ND (5) Acetophenone NA ND (5) ND (5) ND (5) Benzoic acid NA 50 R ND (50) ND (50) 50 R 50 R Benzyl Alcohol NA ND (2) ND (2) ND (2) ND (2) ND (2) Biphenyl ND (2) ND (2) ND (2) ND (2) ND (2) bis(2-Chloroethoxy)methane 5 ND (5) ND (5) ND (5) ND (5) ND (5) ois(2-Chloroethyl)ether 1 ND (2) ND (2) ND (2) ND (2) ND (2) bis(2-Ethylhexyl)phthalate 5 ND (3) ND (3) ND (3) ND (3) ND (3) Butyl benzylphthalate (BBP) 50 ND (5) ND (5) ND (5) ND (5) ND (5) Carbazole NA ND (2) ND (2) ND (2) ND (2) ND (2) Dibenzofuran NA ND (2) ND (2) ND (2) ND (2) ND (2) Diethyl phthalate 50 ND (5) ND (5) ND (5) ND (5) ND (5) 50 ND (5) ND (5) ND (5) ND (5) ND (5) Dimethyl phthalate 50 Di-n-butylphthalate (DBP) ND (5) ND (5) ND (5) ND (5) ND (5) Di-n-octyl phthalate (DnOP) 50 ND (5) ND (5) ND (5) ND (5) ND (5) Hexachlorocyclopentadiene 5 ND (20) ND (20) ND (20) ND (20) ND (20) Isophorone 50 ND (5) ND (5) ND (5) ND (5) ND (5) Nitrobenzene 0.4 ND (2) ND (2) ND (2) ND (2) ND (2) NA N-Nitrosodi-n-propylamine ND (5) ND (5) ND (5) ND (5) ND (5) N-Nitrosodiphenylamine 50 ND (2) ND (2) ND (2) ND (2) ND (2) ND (5) ND (5) ND (5) ND (5) ND (5) Phenol Inorganic Compounds (ug/L) Aluminum, Dissolved NA ND (15) ND (15) ND (15) ND (15) ND (15) Antimony, Dissolved 0.74 J ND (4) 0.52 J 7.03 0.86 J Arsenic, Dissolved 25 0.97 1.07 1.52 1.26 0.98 Barium, Dissolved 1000 116.1 69.14 J 104.9 J 83.32 58.85 ND (0.5) Beryllium, Dissolved ND (0.5) ND (0.5) ND (0.5) ND (0.5) 3 0.16 J ND (0.2) ND (0.2) 0.16 J Cadmium, Dissolved NA 330000 144000 253000 73500 Calcium, Dissolved 161000 50 ND (2) ND (2) ND (2) ND (2) ND (2) Chromium, Dissolved Cobalt, Dissolved NA 2.62 1.02 2.25 1.4 Copper, Dissolved 200 4.24 0.41 J ND (1) 22.27 4.2 Iron, Dissolved 300 25.9 J 24.2 J 47.4 J 45.4 J ND (50) 0.59 J Lead, Dissolved 25 0.4 J ND (1) 0.37 J ND (1) 35000 44800 53200 27000 29000 40800 Magnesium, Dissolved 119.5 300 8254 1714 1602 283.2 Manganese, Dissolved Mercury, Dissolved 0.7 ND (0.2) ND (0.2) ND (0.2) ND (0.2) ND (0.2) Nickel, Dissolved 100 6.03 NA 30400 30100 28800 41300 13200 Potassium, Dissolved Selenium, Dissolved 10 3.97 J ND (5) ND (5) 12.7 ND (5) Silver, Dissolved 50 ND (0.4) ND (0.4) ND (0.4) ND (0.4) ND (0.4) Sodium, Dissolved 20000 227000 J 148000 J 158000 J 122000 J 105000 J Thallium, Dissolved 0.5 0.15 J ND (1) ND (1) ND (1) ND (1) ND (5) 1.84 J Vanadium, Dissolved NA ND (5) ND (5) ND (5) Zinc, Dissolved 2000 11.94 4.09 J 4.63 J 1448 18.24 4.48 J 5.87 J Aluminum, Total NA 22 6.15 J Antimony, Total 0.67 J ND (4) ND (4) 7.49 0.86 J Arsenic, Total 25 1.12 12.86 12.4 1.51 1.29 Barium, Total 1000 121.9 154.5 162.6 90.87 65.05 Beryllium, Total 3 ND (0.5) ND (0.5) ND (0.5) ND (0.5) ND (0.5) 5 ND (0.2) ND (0.2) 0.19 J Cadmium, Total 0.18 J 6.16 383000 135000 NA 140000 292000 86000 Calcium, Total Chromium, Total 50 0.48 J 0.39 J 2.17 Cobalt, Total NA 2.56 1.11 1.2 2.36 1.7 Copper, Total 200 4.68 J+ ND (1) ND (1) 22.51 J+ 2.67 J+ ron, Total 300 58.8 44400 42000 147 ND (50) Lead, Total 25 1.6 ND (1) 0.36 J 2.95 0.7 J Magnesium, Total 35000 59700 24100 J 26400 J 48400 47000 Manganese, Tota 300 8244 1833 1773 349.4 Mercury, Total 0.7 ND (0.2) ND (0.2) ND (0.2) ND (0.2) ND (0.2) Nickel, Total 1.97 J 100 5.92 41.74 7.05 2.4 Potassium, Total 35500 27300 49300 NA 26800 15600 Selenium, Total ND (5) ND (5) 2.42 J 10 5.83 14.4 Silver, Total 50 ND (0.4) ND (0.4) ND (0.4) ND (0.4) ND (0.4) Sodium, Total 20000 252000 135000 150000 133000 117000 Thallium, Total 0.5 0.17 J ND (1) 0.14 J ND (1) ND (1) Vanadium, Total NA ND (5) ND (5) ND (5) ND (5) 2.08 J 2000 9.58 11.22 6.46 J 1417 19.37 Zinc, Total

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bgs: below ground surface

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- For test methods used, see the laboratory data sheets.

- Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Standards.

- Bold indicates an exceedance of AWQS criteria.

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN GROUNDWATER SACKETT HEIGHTS LLC

558 SACKETT STREET

BROOKLYN, NEW YORK

	Action Level					
Location Name	New York TOGS	MW-1	MW-2	MW-2	MW-3	MW-4
Sample Name	111 Amhient	MW-1-20230717	DUP01-20230706	MW-2-20230706	MW-3-20230717	MW-4-2023071
Sample Date	Water Quality	07/17/2023	07/06/2023	07/06/2023	07/17/2023	07/17/2023
	Standards	L2340792-01	L2338623-02	L2338623-01	L2340792-02	L2340792-03
Lab Sample ID)	L2343860-03	L2343860-02	L2343860-01	L2343860-04	L2343860-05
PCBs (ug/L)						
Aroclor-1016 (PCB-1016)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1221 (PCB-1221)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1232 (PCB-1232)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1242 (PCB-1242)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1248 (PCB-1248)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1254 (PCB-1254)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1260 (PCB-1260)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1262 (PCB-1262)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1268 (PCB-1268)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Polychlorinated biphenyls (PCBs)	0.09	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Pesticides (ug/L)						
4,4'-DDD	0.3	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
4,4'-DDE	0.2	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
4,4'-DDT	0.2	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
Aldrin	0	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
alpha-BHC	0.01	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
alpha-Chlordane (cis)	NA	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
beta-BHC	0.04	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
Chlordane	0.05	ND (0.143)	ND (0.167)	ND (0.143)	ND (0.143)	ND (0.143)
delta-BHC	0.04	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
Dieldrin	0.004	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
Endosulfan I	NA	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
Endosulfan II	NA	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
Endosulfan sulfate	NA	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
Endrin	0	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
Endrin aldehyde	5	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
Endrin ketone	5	ND (0.029)	ND (0.033)	ND (0.029)	ND (0.029)	ND (0.029)
gamma-BHC (Lindane)	0.05	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
gamma-Chlordane (trans)	NA	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
Heptachlor	0.04	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
Heptachlor epoxide	0.03	ND (0.014)	ND (0.017)	ND (0.014)	ND (0.014)	ND (0.014)
Methoxychlor	35	ND (0.143)	ND (0.167)	ND (0.143)	ND (0.143)	ND (0.143)
Toxaphene	0.06	ND (0.143)	ND (0.167)	ND (0.143)	ND (0.143)	ND (0.143)
PFAS (ng/L)						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	2.44 J	ND (6.7) J	ND (6.39) J	ND (6.37) J	ND (7.07)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	ND (6.11)	ND (6.7) J	ND (6.39) J	ND (6.37) J	ND (7.07)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	ND (1.53)	ND (1.68)	ND (1.6) J	ND (1.59)	ND (1.77)
Perfluorobutanesulfonic acid (PFBS)	NA	8.1	4.77	5.91	7.32	1.06 J
Perfluorobutanoic acid (PFBA)	NA	16.6	22.7 J	33.6 J	73	8.22
Perfluorodecanesulfonic acid (PFDS)	NA	ND (1.53)	ND (1.68)	ND (1.6) J	ND (1.59)	ND (1.77)
Perfluorodecanoic acid (PFDA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluorododecanoic acid (PFDoDA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluoroheptanesulfonic acid (PFHpS)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluoroheptanoic acid (PFHpA)	NA	9.93	11.7	13.7	27.6	3.62
Perfluorohexanesulfonic acid (PFHxS)	NA	ND (1.53)	0.502 J	5.27 J	ND (1.59)	ND (1.77)
Perfluorohexanoic acid (PFHxA)	NA	20.7	20.4	26.4	88.3	6.45
Perfluorononanoic acid (PFNA)	NA	1.38 J	1.59 J	1.6 J	0.716 J	ND (1.77)
Perfluorooctane sulfonamide (PFOSA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluorooctanesulfonic acid (PFOS)	2.7	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluorooctanoic acid (PFOA)	6.7	57.1	69.7 J	105 J	88.4	11.9
Perfluoropentanoic acid (PFPeA)	NA	18.7	22.1 J	60 J	93.7	8.48
Perfluorotetradecanoic acid (PFTeDA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluorotridecanoic acid (PFTrDA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
Perfluoroundecanoic acid (PFUnDA)	NA	ND (1.53)	ND (1.68)	ND (1.6)	ND (1.59)	ND (1.77)
US EPA PFAS (PFOS + PFOA)	NA	57.1	69.7 J	105 J	88.4	11.9

ABBREVIATIONS AND NOTES:

μg/L: micrograms per liter ng/L: nanogram per liter

-: Not Analyzed

bgs: below ground surface ft: feet
J: Value is estimated.

J+: Value is estimated, biased high

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.
 Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Standards.
 Bold indicates an exceedance of AWQS criteria.

REMEDIAL INVESTIGATION RESULTS - ANALYTICAL RESULTS IN GROUNDWATER SACKETT HEIGHTS LLC

558 SACKETT STREET

BROOKLYN, NEW YORK

		Action Level					
	Location Name		MW-1	MW-2	MW-2	MW-3	MW-4
	Sample Name	New York TOGS	MW-1-20230717	DUP01-20230706	MW-2-20230706	MW-3-20230717	MW-4-20230717
	Sample Date	111 Ambient	07/17/2023	07/06/2023	07/06/2023	07/17/2023	07/17/2023
		Water Quality	L2340792-01	L2338623-02	L2338623-01	L2340792-02	L2340792-03
	Lab Sample ID	Standards	L2343860-03	L2343860-02	L2343860-01	L2343860-04	L2343860-05
Semi-Volatile Organic Compounds (SIM) (ug/L)							
1,4-Dioxane		0.35	ND (0.144)	0.0896 J	0.119 J	ND (0.15)	ND (0.144)
2-Chloronaphthalene		10	ND (0.144) ND (0.2)	ND (0.2)	ND (0.2)	ND (0.13)	ND (0.144)
2-Methylnaphthalene		NA	ND (0.2) ND (0.1)	ND (0.2)	ND (0.2) ND (0.1)	0.13 J+	ND (0.2) ND (0.1)
Acenaphthene		20	ND (0.1) ND (0.1)	9.8 J	17 J	ND (0.1)	ND (0.1)
Acenaphthylene		NA	0.05 J+	0.05 J	0.11	0.04 J	ND (0.1)
Anthracene		50	0.03 J+ 0.02 J+	0.03 J	0.11 0.04 J	0.04 J 0.05 J	ND (0.1) ND (0.1)
Benzo(a)anthracene		0.002	0.02 J+	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1) ND (0.1)
Benzo(a)pyrene		0.002	ND (0.1)	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)
Benzo(b)fluoranthene		0.002	ND (0.1) ND (0.1)	0.02 J	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)
Benzo(g,h,i)perylene		0.002 NA	ND (0.1) ND (0.1)	0.02 J 0.04 J	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)
Benzo(k)fluoranthene		0.002	ND (0.1) ND (0.1)	0.04 J	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)
Chrysene		0.002	ND (0.1) ND (0.1)	ND (0.1)	0.01 J	ND (0.1) ND (0.1)	ND (0.1) ND (0.1)
,		0.002 NA	` '	0.06 J		, ,	` '
Dibenz(a,h)anthracene Fluoranthene		NA 50	ND (0.1) ND (0.1)	0.06 J ND (0.1)	ND (0.1)	ND (0.1) 0.03 J	ND (0.1) ND (0.1)
Fluorene		50 50	0.01 J+	ND (0.1) 0.74 J	ND (0.1) 2.9 J	0.03 J 0.05 J	• •
Hexachlorobenzene		0.04	0.01 J+ ND (0.8)	0.74 J ND (0.8)	2.9 J ND (0.8)	0.05 J ND (0.8)	ND (0.1) 0.01 J
Hexachlorobenzene Hexachlorobutadiene			` '	` '	, ,	, ,	0.01 J ND (0.5)
Hexachloroethane		0.5 5	ND (0.5) ND (0.8)	ND (0.5) ND (0.8)	ND (0.5)	ND (0.5)	• •
		0.002	` '	0.05 J	ND (0.8)	ND (0.8)	ND (0.8)
Indeno(1,2,3-cd)pyrene Naphthalene		10	ND (0.1) 0.33 J+	0.05 J 0.22 J	ND (0.1) 0.52 J	ND (0.1) 0.41 J+	ND (0.1) ND (0.1)
•		-					
Pentachlorophenol		1 50	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)	ND (0.8)
Phenanthrene			ND (0.1)	0.03 J	0.38 J	0.04 J	ND (0.1)
Pyrene		50	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)

ABBREVIATIONS AND NOTES:

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J: Value is estimated.
J+: Value is estimated, biased high

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

R: Rejected

- For test methods used, see the laboratory data sheets.
 Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Standards.
 Bold indicates an exceedance of AWQS criteria.

TABLE 3a SUMMARY OF WATER QUALITY DATA 558 SACKETT STREET

		Action Level								
	Location Name	New York TOGS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-7
	Sample Name	111 Ambient	MW-1_20240404	MW-2_20240405	MW-3-20240403	MW-4_20240404	MW-5-20240403	MW-6_20240405	MW-7-20240403	DUP1_20240403
	Sample Date Lab Sample ID	Water Quality Standards	04/04/2024 L2418559-02	04/05/2024 L2418782-02	04/03/2024 L2418246-03	04/04/2024 L2418559-01	04/03/2024 L2418246-02	04/05/2024 L2418782-01	04/03/2024 L2418246-01	04/03/2024 L2418246-04
	Lab Sample 1D	Staridards	12418333-02	12418782-02	12418240-03	12418333-01	12410240-02	12418782-01	12410240-01	12410240-04
Volatile Organic Compounds (ug/L)		-	ND (2.5)	ND (42)	ND (42)	ND (42)				
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane		5 5	ND (2.5) ND (2.5)	ND (12) ND (12)	ND (12) ND (12)	ND (12) ND (12)				
1,1,2,2-Tetrachloroethane		5	ND (2.5) ND (0.5)	ND (2.5) ND (0.5)	ND (2.5) ND (0.5)	ND (2.5)	ND (2.5) ND (0.5)	ND (12) ND (2.5)	ND (12) ND (2.5)	ND (12) ND (2.5)
1,1,2-Trichloroethane		1	ND (1.5)	ND (0.5)	ND (0.5)	ND (1.5)	ND (0.5)	ND (7.5)	ND (7.5)	ND (7.5)
1,1-Dichloroethane		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,1-Dichloroethene		5	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)				
1,1-Dichloropropene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,2,3-Trichlorobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,2,3-Trichloropropane		0.04	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,2,4,5-Tetramethylbenzene		5	ND (2)	1.3 J	ND (2)	ND (2)	58	160	4.2 J	3.8 J
1,2,4-Trichlorobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,2,4-Trimethylbenzene		5	ND (2.5)	ND (12)	57	54				
1,2-Dibromo-3-chloropropane (DBCP)		0.04	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,2-Dibromoethane (Ethylene Dibromide)		0.0006	ND (2)	ND (10)	ND (10)	ND (10)				
1,2-Dichlorobenzene 1,2-Dichloroethane		3 0.6	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,2-Dichloroethane 1,2-Dichloroethene (total)		NA	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5) 8.6	ND (0.5) 1.5 J	ND (2.5) 3.9 J	ND (2.5) ND (12)	ND (2.5)
1,2-Dichloropropane		NA 1	ND (2.5) ND (1)	ND (2.5)	ND (2.5)	8.6 ND (1)	1.5 J ND (1)		ND (12) ND (5)	ND (12)
1,3,5-Trimethylbenzene		5	ND (1) ND (2.5)	ND (5) ND (12)	ND (5) 16	ND (5) 15				
1,3-Dichlorobenzene		3	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,3-Dichloropropane		5 5	ND (2.5)	ND (12)	ND (12)	ND (12) ND (12)				
1,3-Dichloropropene		0.4	ND (2.5)	ND (12) ND (2.5)						
1,4-Dichlorobenzene		3	ND (2.5)	ND (12)	ND (12)	ND (12)				
1,4-Diethylbenzene		NA	ND (2)	ND (2)	ND (2)	ND (2)	14	50	9.8 J	9.2 J
1,4-Dioxane		0.35	ND (250)	ND (1200)	ND (1200)	ND (1200)				
2,2-Dichloropropane		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
2-Butanone (Methyl Ethyl Ketone)		50	ND (5)	ND (25)	ND (25)	ND (25)				
2-Chlorotoluene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
2-Hexanone (Methyl Butyl Ketone)		50	ND (5)	ND (25)	ND (25)	ND (25)				
2-Phenylbutane (sec-Butylbenzene)		5	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	11	36	ND (12)	ND (12)
4-Chlorotoluene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)		NA	ND (2)	ND (10)	34	32				
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)		NA	ND (5)	ND (25)	ND (25)	ND (25)				
Acetone		50	ND (5)	8.8 J	ND (25)	ND (25)				
Acrylonitrile		5	ND (5)	ND (25)	ND (25)	ND (25)				
Benzene		1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	ND (2.5)	3.8	3.8
Bromobenzene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Bromodichloromethane		50	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)				
Bromoform Bromomothano (Mathyl Bromide)		50	ND (2)	ND (10)	ND (10)	ND (10)				
Bromomethane (Methyl Bromide) Carbon disulfide		5 60	ND (2.5) ND (5)	ND (12) ND (25)	ND (12) ND (25)	ND (12) ND (25)				
Carbon tetrachloride		5	ND (0.5)	ND (3) ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)
Chlorobenzene		5	ND (0.5) ND (2.5)	ND (0.5) ND (2.5)	ND (0.5) ND (2.5)	ND (0.5)	ND (0.5) ND (2.5)	ND (2.3) ND (12)	ND (2.3) ND (12)	ND (2.5) ND (12)
Chlorobromomethane		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Chloroethane		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Chloroform (Trichloromethane)		7	0.78 J	ND (2.5)	1.4 J	ND (2.5)	ND (2.5)	ND (12)	ND (12)	ND (12)
Chloromethane (Methyl Chloride)		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
cis-1,2-Dichloroethene		5	ND (2.5)	ND (2.5)	ND (2.5)	8.6	1.5 J	3.9 J	ND (12)	ND (12)
cis-1,3-Dichloropropene		0.4	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)				
Cymene (p-Isopropyltoluene)		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Dibromochloromethane		50	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)				
Dibromomethane		5	ND (5)	ND (25)	ND (25)	ND (25)				
Dichlorodifluoromethane (CFC-12)		5	ND (5)	ND (25)	ND (25)	ND (25)				
Ethyl Ether		NA	ND (2.5)	ND (12)	ND (12)	ND (12)				
Ethylbenzene		5	ND (2.5)	7 J	90	83				
Hexachlorobutadiene		0.5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Isopropylbenzene (Cumene)		5	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	29	160	13	12
m,p-Xylenes		5	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	0.75 J	ND (12)	42 J	39 J
Methyl Tert Butyl Ether (MTBE) Methylene chloride (Dichloromethane)		10 5	ND (2.5) ND (2.5)	ND (2.5) ND (2.5)	ND (2.5) ND (2.5)	0.45 J ND (2.5)	ND (2.5) ND (2.5)	1.4 J ND (12)	ND (12) ND (12)	ND (12) ND (12)
Naphthalene		5 10	ND (2.5) ND (2.5)	ND (2.5) ND (2.5)	0.78 J	ND (2.5) ND (2.5)	ND (2.5) 1.3 J	ND (12) ND (12)	ND (12) 800	ND (12) 720
n-Butylbenzene		5	ND (2.5) ND (2.5)	ND (2.5) ND (2.5)	0.78 J ND (2.5)	ND (2.5) ND (2.5)	7.9	ND (12) 53	ND (12)	ND (12)
n-Propylbenzene		5	ND (2.5)	2.8	ND (2.5)	ND (2.5)	84	570	5.6 J	5.1 J
o-Xylene		5	ND (2.5)	ND (12)	34	32				
Styrene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
tert-Butylbenzene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Tetrachloroethene		5	0.4 J	ND (0.5)	5	29	10	11	1.2 J	0.98 J
Toluene		5	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	0.71 J	ND (12)	ND (12)	ND (12)
trans-1,2-Dichloroethene		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
trans-1,3-Dichloropropene		0.4	ND (0.5)	ND (2.5)	ND (2.5)	ND (2.5)				
trans-1,4-Dichloro-2-butene		5	ND (2.5)	ND (2.5) J	ND (2.5)	ND (2.5)	ND (2.5)	ND (12) J	ND (12)	ND (12)
Trichloroethene		5	0.82	ND (0.5)	0.7	5.7	1.5	3.2	1.8 J	1.7 J
Trichlorofluoromethane (CFC-11)		5	ND (2.5)	ND (12)	ND (12)	ND (12)				
Vinyl acetate		NA	ND (5)	ND (25)	ND (25)	ND (25)				
Vinyl chloride		2	ND (1)	ND (5)	ND (5)	ND (5)				
Xylene (Total)		5	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	0.75 J	ND (12)	76	71

TABLE 3a SUMMARY OF WATER QUALITY DATA 558 SACKETT STREET

FILE INC. U200364		Action Lovel								
	Location Name	Action Level New York TOGS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-7
	Sample Name	111 Ambient	MW-1 20240404	MW-2 20240405	MW-3-20240403	MW-4 20240404	MW-5-20240403	MW-6 20240405	MW-7-20240403	DUP1_20240403
	Sample Date	Water Quality	04/04/2024	04/05/2024	04/03/2024	04/04/2024	04/03/2024	04/05/2024	04/03/2024	04/03/2024
	Lab Sample ID	Standards	L2418559-02	L2418782-02	L2418246-03	L2418559-01	L2418246-02	L2418782-01	L2418246-01	L2418246-04
Sami Valatila Organia Compounda (ug/l)	·									
Semi-Volatile Organic Compounds (ug/L) 1,2,4,5-Tetrachlorobenzene		5	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
1,2,4-Trichlorobenzene		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichlorobenzene		3	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,3-Dichlorobenzene		3	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
1,4-Dichlorobenzene		3	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
2,2'-oxybis(1-Chloropropane)		5	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
2,4,5-Trichlorophenol		NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2,4,6-Trichlorophenol		NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2,4-Dichlorophenol		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2,4-Dimethylphenol		50	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2,4-Dinitrophenol		10	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
2,4-Dinitrotoluene		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2,6-Dinitrotoluene		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Chlorophenol		NA	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
2-Methylphenol (o-Cresol)		NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Nitroaniline		5	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)
2-Nitrophenol		NA	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
3&4-Methylphenol		NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
3,3'-Dichlorobenzidine		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
3-Nitroaniline		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4,6-Dinitro-2-methylphenol		NA	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
4-Bromophenyl phenyl ether (BDE-3)		NA	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
4-Chloro-3-methylphenol		NA	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
4-Chloroaniline		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Chlorophenyl phenyl ether		NA	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
4-Nitroaniline		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Nitrophenol		NA	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Acetophenone		NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Benzoic acid		NA	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)
Benzyl Alcohol		NA	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Biphenyl		5	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	8 ND (E)	6.6
bis(2-Chloroethoxy)methane		5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
bis(2-Chloroethyl)ether		1 5	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
bis(2-Ethylhexyl)phthalate Butyl benzylphthalate (BBP)		5 50	ND (3) ND (5)	ND (3) ND (5)	ND (3) ND (5)	ND (3) ND (5)	ND (3) ND (5)	2.2 J ND (5)	ND (3) ND (5)	ND (3) ND (5)
Carbazole		NA	ND (3) ND (2)	ND (3) ND (2)	ND (3) ND (2)	ND (3)	ND (3) ND (2)	ND (3) ND (2)	ND (3) ND (2)	ND (3)
Dibenzofuran		NA NA	ND (2)	ND (2)	ND (2)	ND (2) 3 ND (2)	ND (2)	0.62 J	0.8 J	0.8 J
Diethyl phthalate		50	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)	ND (5)	ND (5)
Dimethyl phthalate		50	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Di-n-butylphthalate (DBP)		50	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Di-n-octyl phthalate (DnOP)		50	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Hexachlorocyclopentadiene		5	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
Isophorone		50	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Nitrobenzene		0.4	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
N-Nitrosodi-n-propylamine		NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
N-Nitrosodiphenylamine		50	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Phenol		1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Inorganic Compounds (ug/L)										
Aluminum, Dissolved		NA	7.58 J	16.5	6 20 1	5.82 J	9.64 J	14.9	10.4	11
Antimony, Dissolved		NA 3	2.42 J	2.01 J	6.29 J 5.42	0.75 J	ND (4)	0.47 J	2.17 J	2.67 J
Arsenic, Dissolved		25	0.71	3.03	1.11	1.36	3.29	6.14	1.58	1.82
Barium, Dissolved		1000	54.98	20.44	48.99	41.06	59.12	92.36	58.98	58.02
Beryllium, Dissolved		3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Cadmium, Dissolved		5	0.08 J	ND (0.2)	2.05	ND (0.2)	ND (0.2)	ND (0.2)	0.46	0.47
Calcium, Dissolved		NA	206000	38200	170000	84400	174000	85200	147000	149000
Chromium, Dissolved		50	9.02	7.32	5.59	0.93 J	0.24 J	0.3 J	7.25	7.23
Cobalt, Dissolved		NA	0.19 J	0.22 J	0.32 J	ND (0.5)	2.41	2.76	0.26 J	0.25 J
Copper, Dissolved		200	8.35	4.75	17.28	1.97	2.72	0.5 J	6.15	6.84
Iron, Dissolved		300	21.4 J	24.9 J	ND (50)	ND (50)	4630	2960	ND (50)	ND (50)
Lead, Dissolved		25	0.61 J	4.61	2.76	ND (1)	ND (1)	1.5	1.48	1.41
Magnesium, Dissolved		35000	53100 J	5200	32300	37400 J	38700	47100	30600	31200
Manganese, Dissolved		300	36.33	4.41	1.74	5.4	1600	7032	19.3	18.55
Mercury, Dissolved		0.7	ND (0.2)	ND (0.2)	0.09 J	ND (0.2)	0.1 J	ND (0.2)	0.1 J	ND (0.2)
Nickel, Dissolved		100	4.06	0.82 J	41.03	2.04	2.53	4.45	15.41	15.64
Potassium, Dissolved		NA	23000	6400	27800	7370	18900	14100	18800	18600
Selenium, Dissolved		10	9.98	2.43 J	9.31	ND (5)	37.3	ND (5)	4.3 J	4.21 J
Silver, Dissolved		50	ND (0.4)	ND (0.4)	ND (0.4)	0.31 J	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)
Sodium, Dissolved		20000	93200	21700	61100	78000	112000	93200	66800	68100
Thallium, Dissolved		0.5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Vanadium, Dissolved		NA 2000	ND (5)	3.16 J	1.58 J	2.06 J	ND (5)	ND (5)	2.21 J	2.14 J
Zinc, Dissolved		2000	12.91	ND (10)	513.5	10.2	ND (10)	ND (10)	134	137.8
Aluminum, Total		NA 2	409	134	49.8	19.6	5360 ND (4)	93.3	523 J	1630 J
Antimony Total		3	2.32 J	1.86 J 3.29	3.75 J	1.12 J	ND (4)	0.44 J	2.23 J 2.09 J	2.32 J
Antimony, Total		25		3.47	1.12 J+	1.37	6.01	6.71	2.09 J 80.77 J	2.94 J
Arsenic, Total		25 1000	1.07 65 64		50 12	27 16	76 76	40.66		11771
Arsenic, Total Barium, Total		1000	65.64	22.01	50.12 ND (0.5)	37.16 ND (0.5)	76.76 0.31 I	90.66 ND (0.5)		117.7 J 0 14 J
Arsenic, Total Barium, Total Beryllium, Total		1000 3	65.64 ND (0.5)	22.01 ND (0.5)	ND (0.5)	ND (0.5)	0.31 J	ND (0.5)	ND (0.5)	0.14 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total		1000 3 5	65.64 ND (0.5) 0.11 J	22.01 ND (0.5) 0.13 J	ND (0.5) 1.96	ND (0.5) ND (0.2)	0.31 J ND (0.2)	ND (0.5) ND (0.2)	ND (0.5) 0.54	0.14 J 0.68
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total		1000 3 5 NA	65.64 ND (0.5) 0.11 J 235000	22.01 ND (0.5) 0.13 J 37400	ND (0.5) 1.96 167000	ND (0.5) ND (0.2) 94300	0.31 J ND (0.2) 183000	ND (0.5) ND (0.2) 83200	ND (0.5) 0.54 139000	0.14 J 0.68 140000
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total		1000 3 5 NA 50	65.64 ND (0.5) 0.11 J 235000 10.34	22.01 ND (0.5) 0.13 J 37400 7.42	ND (0.5) 1.96 167000 5.7	ND (0.5) ND (0.2) 94300 1.18	0.31 J ND (0.2) 183000 8.38	ND (0.5) ND (0.2) 83200 0.5 J	ND (0.5) 0.54 139000 8.96	0.14 J 0.68 140000 12.51
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total		1000 3 5 NA 50 NA	65.64 ND (0.5) 0.11 J 235000 10.34 0.61	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J	ND (0.5) 1.96 167000 5.7 0.28 J	ND (0.5) ND (0.2) 94300 1.18 0.2 J	0.31 J ND (0.2) 183000 8.38 5.57	ND (0.5) ND (0.2) 83200 0.5 J 2.72	ND (0.5) 0.54 139000 8.96 0.67 J	0.14 J 0.68 140000 12.51 1.61 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total		1000 3 5 NA 50 NA 200	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28	ND (0.5) 1.96 167000 5.7 0.28 J 18.11	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29	0.31 J ND (0.2) 183000 8.38 5.57 5.82	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J	0.14 J 0.68 140000 12.51 1.61 J 37.29 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total		1000 3 5 NA 50 NA 200 300	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total		1000 3 5 NA 50 NA 200 300 25	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Chobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total		1000 3 5 NA 50 NA 200 300 25 35000	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Manganese, Total		1000 3 5 NA 50 NA 200 300 25	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Manganese, Total Mercury, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2)	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2)	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2)	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Mercury, Total Mickel, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7 100	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4 5.64	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J 1.19 J	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2) 38.4	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2) 2.32	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2) 9.04	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J 4.6	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J 18.57	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J 24.32
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Mercury, Total Nickel, Total Potassium, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7 100 NA	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4 5.64 25300	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J 1.19 J 6380	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2) 38.4 27500	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2) 2.32 6970	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2) 9.04 19700	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J 4.6 13900	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J 18.57 17900	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J 24.32 18000
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Mercury, Total Mickel, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7 100	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4 5.64	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J 1.19 J	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2) 38.4	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2) 2.32	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2) 9.04	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J 4.6	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J 18.57	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J 24.32
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Manganese, Total Mickel, Total Potassium, Total Selenium, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7 100 NA 10	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4 5.64 25300 10.2	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J 1.19 J 6380 2.64 J	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2) 38.4 27500 9.54	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2) 2.32 6970 ND (5)	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2) 9.04 19700 38.8	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J 4.6 13900 ND (5)	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J 18.57 17900 4.05 J	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J 24.32 18000 4.32 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Mercury, Total Nickel, Total Potassium, Total Selenium, Total Selenium, Total Silver, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7 100 NA 10 50	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4 5.64 25300 10.2 ND (0.4)	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J 1.19 J 6380 2.64 J ND (0.4)	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2) 38.4 27500 9.54 ND (0.4)	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2) 2.32 6970 ND (5) ND (0.4)	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2) 9.04 19700 38.8 ND (0.4)	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J 4.6 13900 ND (5) ND (0.4)	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J 18.57 17900 4.05 J ND (0.4)	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J 24.32 18000 4.32 J 0.29 J
Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Calcium, Total Chromium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Magnesium, Total Manganese, Total Mercury, Total Nickel, Total Potassium, Total Selenium, Total Silver, Total Sodium, Total		1000 3 5 NA 50 NA 200 300 25 35000 300 0.7 100 NA 10 50 20000	65.64 ND (0.5) 0.11 J 235000 10.34 0.61 9.38 506 19.1 56800 48.38 0.4 5.64 25300 10.2 ND (0.4) 99200	22.01 ND (0.5) 0.13 J 37400 7.42 0.29 J 9.28 201 26.72 5370 7.94 0.13 J 1.19 J 6380 2.64 J ND (0.4) 22100	ND (0.5) 1.96 167000 5.7 0.28 J 18.11 106 6.08 32300 3.49 J+ ND (0.2) 38.4 27500 9.54 ND (0.4) 60500	ND (0.5) ND (0.2) 94300 1.18 0.2 J 2.29 38.6 J 0.46 J 38600 7.88 ND (0.2) 2.32 6970 ND (5) ND (0.4) 80000	0.31 J ND (0.2) 183000 8.38 5.57 5.82 14000 9.85 40300 1731 ND (0.2) 9.04 19700 38.8 ND (0.4) 113000	ND (0.5) ND (0.2) 83200 0.5 J 2.72 1.73 2850 2.51 48300 6697 0.1 J 4.6 13900 ND (5) ND (0.4) 93800	ND (0.5) 0.54 139000 8.96 0.67 J 16.37 J 914 J 17.66 J 28800 30.45 J 0.15 J 18.57 17900 4.05 J ND (0.4) 63500	0.14 J 0.68 140000 12.51 1.61 J 37.29 J 2890 J 46.67 J 29600 53.72 J 0.14 J 24.32 18000 4.32 J 0.29 J 65000

TABLE 3a SUMMARY OF WATER QUALITY DATA 558 SACKETT STREET

	Action Level		1						
Location Name		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-7
Sample Name	111 Ambient	MW-1_20240404 04/04/2024	MW-2_20240405	MW-3-20240403	_	MW-5-20240403	MW-6_20240405	MW-7-20240403	DUP1_20240403
Sample Date Lab Sample ID		L2418559-02	04/05/2024 L2418782-02	04/03/2024 L2418246-03	04/04/2024 L2418559-01	04/03/2024 L2418246-02	04/05/2024 L2418782-01	04/03/2024 L2418246-01	04/03/2024 L2418246-04
	Staridards	12410333 02	12410702 02	12410240 03	12410333 01	12410240 02	12410702 01	22410240 01	22410240 04
PCBs (ug/L)	N/A	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1016 (PCB-1016) Aroclor-1221 (PCB-1221)	NA NA	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)
Aroclor-1221 (PCB-1221) Aroclor-1232 (PCB-1232)	NA NA	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071) ND (0.071)	ND (0.071)
Aroclor-1242 (PCB-1242)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1248 (PCB-1248)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1254 (PCB-1254)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1260 (PCB-1260)	NA	ND (0.071)	0.093	ND (0.071)					
Aroclor-1262 (PCB-1262)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Aroclor-1268 (PCB-1268)	NA	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)	ND (0.071)
Polychlorinated biphenyls (PCBs)	0.09	ND (0.071)	0.093	ND (0.071)					
Pesticides (ug/L)									
4,4'-DDD	0.3	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
4,4'-DDE	0.2	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
4,4'-DDT	0.2	ND (0.029)	0.006 J	ND (0.029)	ND (0.029)	ND (0.029)	0.007 J	ND (0.029)	ND (0.029)
Aldrin	0	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
alpha-BHC	0.01	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
alpha-Chlordane (cis)	NA 0.04	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
beta-BHC Chlordana	0.04	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
Chlordane delta-BHC	0.05 0.04	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)	ND (0.143) ND (0.014)
Dieldrin	0.04	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)	ND (0.014) ND (0.029)
Endosulfan I	0.004 NA	ND (0.029)	ND (0.029) ND (0.014)	ND (0.029) ND (0.014)	ND (0.029)	ND (0.029) ND (0.014)	ND (0.029)	ND (0.029) ND (0.014)	ND (0.029) ND (0.014)
Endosulfan II	NA NA	ND (0.014)	ND (0.014)	ND (0.029)	ND (0.014)	ND (0.029)	ND (0.014)	ND (0.029)	ND (0.014)
Endosulfan sulfate	NA	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
Endrin	0	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
Endrin aldehyde	5	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
Endrin ketone	5	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)
gamma-BHC (Lindane)	0.05	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
gamma-Chlordane (trans)	NA	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
Heptachlor	0.04	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
Heptachlor epoxide	0.03	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)	ND (0.014)
Methoxychlor	35	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)
Toxaphene	0.06	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)	ND (0.143)
PFAS (ng/L)									
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NA	ND (6.54)	ND (5.99)	ND (5.76)	ND (5.79)	ND (5.75)	ND (5.86)	ND (5.87)	ND (6.05)
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NA	ND (40.9)	ND (37.4)	ND (36)	ND (36.2)	ND (35.9)	ND (36.6)	ND (36.7)	ND (37.8)
3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	NA	ND (40.9) J	ND (37.4)	ND (36)	ND (36.2) J	ND (35.9)	ND (36.6)	ND (36.7)	ND (37.8)
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NA	ND (8.18)	ND (7.49)	ND (7.2)	ND (7.24)	ND (7.18)	ND (7.33)	ND (7.34)	ND (7.56)
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	NA	ND (6.54)	ND (5.99)	ND (5.76)	ND (5.79)	ND (5.75)	ND (5.86)	ND (5.87)	ND (6.05)
4:2 Fluorotelomer sulfonic acid (4:2 FTS) 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA NA	ND (6.54) ND (6.54)	ND (5.99) ND (5.99)	ND (5.76) ND (5.76)	ND (5.79) ND (5.79)	ND (5.75) ND (5.75)	ND (5.86) ND (5.86)	ND (5.87) ND (5.87)	ND (6.05) ND (6.05)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA NA	ND (6.54)	ND (5.99)	ND (5.76)	ND (5.79)	ND (5.75) ND (5.75)	ND (5.86)	ND (5.87)	ND (6.05)
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NA	ND (6.54)	ND (5.99)	ND (5.76)	ND (5.79)	ND (5.75)	ND (5.86)	ND (5.87)	ND (6.05)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51)
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51)
N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	NA	ND (16.4)	ND (15)	ND (14.4)	ND (14.5)	ND (14.4)	ND (14.7)	ND (14.7)	ND (15.1)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51)
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51)
N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	NA	ND (16.4)	ND (15)	ND (14.4)	ND (14.5)	ND (14.4)	ND (14.7)	ND (14.7)	ND (15.1)
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	ND (3.27)	ND (3)	ND (2.88)	ND (2.89)	ND (2.87)	ND (2.93)	ND (2.94)	ND (3.02)
Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	NA	ND (3.27)	ND (3)	ND (2.88)	ND (2.89)	ND (2.87)	ND (2.93)	ND (2.94)	ND (3.02)
Perfluoro (4-methoxybutanoic) acid (PFMBA)	NA	ND (3.27)	ND (3)	ND (2.88)	ND (2.89)	ND (2.87)	ND (2.93)	ND (2.94)	ND (3.02)
Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	NA NA	ND (6.54)	ND (5.99)	ND (5.76)	ND (5.79)	ND (5.75)	ND (5.86)	ND (5.87)	ND (6.05)
Perfluoro-3-methoxypropanoic acid (PFMPA) Perfluorobutanesulfonic acid (PFBS)	NA NA	ND (3.27) 1.79	ND (3) 0.532 J	ND (2.88) 1.65	ND (2.89) 1.93	ND (2.87) 3.33	ND (2.93)	ND (2.94) 1.63	ND (3.02) 1.48 J
Perfluorobutanesuifonic acid (PFBS) Perfluorobutanoic acid (PFBA)	NA NA	10.4	7.75	7.63	1.93 8.71	9.58	2.89 10.1	7.05	7.79
Perfluorodecanesulfonic acid (PFDS)	NA NA	ND (1.64)	7.75 ND (1.5)	7.65 ND (1.44)	ND (1.45)	9.56 ND (1.44)	ND (1.47)	7.05 ND (1.47)	7.79 ND (1.51) J
Perfluorodecanics acid (PFDA)	NA NA	ND (1.64)	ND (1.5)	ND (1.44) ND (1.44)	ND (1.45) ND (1.45)	ND (1.44) ND (1.44)	ND (1.47) ND (1.47)	1.67	1.62
Perfluorododecane sulfonic acid (PFDoDS)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51) J
Perfluorododecanoic acid (PFDoDA)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51)
Perfluoroheptanesulfonic acid (PFHpS)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	0.524 J	ND (1.47)	ND (1.47)	0.446 J
Perfluoroheptanoic acid (PFHpA)	NA	12.6	3.68	8.57	7	10.5	9.3	8.42	9.8
Perfluorohexanesulfonic acid (PFHxS)	NA	1.75	0.577 J	1.71	3.51	4.91	3.52	1.55	1.75
Perfluorohexanoic acid (PFHxA)	NA	17.9	7.11	17.8	10	14.1	16.1	11.3	12.8
Perfluorononane sulfonic acid (PFNS)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51) J
Perfluorononanoic acid (PFNA)	NA	2.9	0.974 J	2.16	ND (1.45)	1.27 J	ND (1.47)	3.57	3.73
Perfluorooctane sulfonamide (PFOSA)	NA	ND (1.64)	ND (1.5)	ND (1.44)	ND (1.45)	ND (1.44)	ND (1.47)	ND (1.47)	ND (1.51) J
Perfluorooctanesulfonic acid (PFOS)	2.7	16.4	11.4	15.3	3.93	10.5	5.02	26.6	26.8 J
Perfluorooctanoic acid (PFOA)	6.7	82	10.9	41.3	36.4	58.2	49.3	68.8	75.6
Perfluoropentanesulfonic acid (PFPeS)	NA NA	1.55 J	ND (1.5)	ND (1.44)	0.724 J	1.23 J	0.777 J	0.411 J	ND (1.51)
Perfluoropentanoic acid (PFPeA) Perfluorotetradecanoic acid (PFTeDA)	NA NA	25 ND (1.64)	11.7 ND (1.5)	19.3 ND (1.44)	11.2 ND (1.45)	17.1 ND (1.44)	15.8 ND (1.47)	14.2 ND (1.47)	14.3 ND (1.51) I
Perfluorotetradecanoic acid (PFTeDA) Perfluorotridecanoic acid (PFTrDA)	NA NA	ND (1.64) ND (1.64)	ND (1.5) ND (1.5)	ND (1.44) ND (1.44)	ND (1.45) ND (1.45)	ND (1.44) ND (1.44)	ND (1.47) ND (1.47)	ND (1.47) ND (1.47)	ND (1.51) J ND (1.51)
Perfluoroundecanoic acid (PFUnDA)	NA NA	ND (1.64) ND (1.64)	ND (1.5)	ND (1.44) ND (1.44)	ND (1.45) ND (1.45)	ND (1.44) ND (1.44)	ND (1.47) ND (1.47)	ND (1.47) ND (1.47)	ND (1.51) ND (1.51)
TPETHUOTOUNGECANOIC ACIG (PFUNDA)									

TABLE 3a SUMMARY OF WATER QUALITY DATA 558 SACKETT STREET

BROOKLYN, NEW YORK FILE NO. 0206384

	Action Level								
Location Nam	New York TOGS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-7
Sample Nam	111 Ambient	MW-1_20240404	MW-2_20240405	MW-3-20240403	MW-4_20240404	MW-5-20240403	MW-6_20240405	MW-7-20240403	DUP1_20240403
Sample Dat	Water Quality	04/04/2024	04/05/2024	04/03/2024	04/04/2024	04/03/2024	04/05/2024	04/03/2024	04/03/2024
Lab Sample I	Standards	L2418559-02	L2418782-02	L2418246-03	L2418559-01	L2418246-02	L2418782-01	L2418246-01	L2418246-04
Semi-Volatile Organic Compounds (SIM) (ug/L)									
1,4-Dioxane	0.35	ND (0.144)	ND (0.144)	ND (0.144)	0.132 J	ND (0.139)	ND (0.139)	ND (0.144)	ND (0.144)
2-Chloronaphthalene	10	ND (0.2)	ND (0.2)	0.03 J	ND (0.2)				
2-Methylnaphthalene	NA	0.04 J	ND (0.1)	0.25	ND (0.1)	0.35	0.25 J+	16	3.1
Acenaphthene	20	0.02 J	0.03 J	0.19	ND (0.1)	0.32	0.94	32 J	32
Acenaphthylene	NA	0.05 J	ND (0.1)	0.02 J	ND (0.1) J	0.04 J	0.1	1.2	2.5
Anthracene	50	0.03 J	ND (0.1)	0.1 J	ND (0.1)	0.14	0.08 J	3.6	4.3
Benzo(a)anthracene	0.002	0.03 J	ND (0.1)	0.03 J	ND (0.1)	0.03 J	0.03 J	0.67 J	2.2
Benzo(a)pyrene	0	0.02 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.02 J	0.54 J	2.2
Benzo(b)fluoranthene	0.002	ND (0.1)	0.03 J	0.41 J+	1.6				
Benzo(g,h,i)perylene	NA	0.02 J	ND (0.1)	ND (0.1)	ND (0.1)	ND (0.1)	0.03 J	0.26 J+	1
Benzo(k)fluoranthene	0.002	ND (0.1)	0.03 J	0.15	0.51				
Chrysene	0.002	0.02 J	ND (0.1)	0.01 J	ND (0.1)	ND (0.1)	0.03 J	0.62 J	2
Dibenz(a,h)anthracene	NA	ND (0.1)	0.03 J	ND (0.1)	0.2				
Fluoranthene	50	0.04 J	0.02 J	0.07 J	0.03 J	0.15	0.17	3.1 J	6.2
Fluorene	50	0.02 J	ND (0.1)	0.12	ND (0.1)	0.24	1.2	7.5	5.6
Hexachlorobenzene	0.04	ND (0.8)	ND (0.8)	0.02 J	ND (0.8)				
Hexachlorobutadiene	0.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5) J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
Hexachloroethane	5	ND (0.8)							
Indeno(1,2,3-cd)pyrene	0.002	ND (0.1)	0.03 J	0.22 J+	0.88				
Naphthalene	10	ND (0.12)	ND (0.1)	0.4 J+	0.09 J	0.78	6.6	9.1 J	1.6
Pentachlorophenol	1	ND (0.8)	0.1 J	ND (0.8)	ND (0.8)	0.1 J	ND (0.8)	0.1 J	ND (0.8)
Phenanthrene	50	0.04 J	ND (0.1)	0.25	ND (0.1)	0.38	ND (0.11)	0.55 J	2.2
Pyrene	50	0.04 J	0.02 J	0.09 J	0.03 J	0.11	0.18	4.4 J	9.2

ABBREVIATIONS AND NOTES:

μg/L: micrograms per liter ng/L: nanogram per liter

-: Not Analyzed bgs: below ground surface

ft: feet J: Value is estimated.

J+: Value is estimated, high bias.

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.
 Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Standards.
 Bold indicates an exceedance of AWQS criteria.

TABLE 4 **SUMMARY OF SOIL GAS QUALITY DATA**

558 SACKETT STREET

JJO JACKLII JIKLLI
BROOKLYN, NEW YORK
FILE NO. 0206384

Location Name	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7
Sample Name		SV-2-20230626	SV-3-20230628	SV-4-20230626	SV-5-20230626	SV-6-20230628	SV-7-20230626
Sample Date		06/26/2023	06/28/2023	06/26/2023	06/26/2023	06/28/2023	06/26/2023
Lab Sample ID		L2336824-01	L2336978-02	L2336824-02	L2336824-03	L2336978-03	L2336824-04
·							
Volatile Organic Compounds (ug/m3)	ND (2.72)	ND (1.00)	ND (4.00)	24.5	1.42	1 21	CO 0
1,1,1-Trichloroethane	ND (2.73)	ND (1.09)	ND (1.09)	31.5 ND (1.37)	1.43	1.21	69.8
1,1,2,2-Tetrachloroethane	ND (3.43)	ND (1.37) ND (1.09)	ND (1.37)		ND (1.37)	ND (1.37)	ND (1.37)
1,1,2-Trichloroethane	ND (2.73)	ND (1.09) ND (0.809)	ND (1.09)	ND (1.09)	ND (1.09)	ND (1.09)	ND (1.09)
1,1-Dichloroethane 1,1-Dichloroethene	ND (2.02) ND (1.98)	ND (0.793)	ND (0.809) ND (0.793)	1.31 ND (0.793)	ND (0.809) ND (0.793)	ND (0.809) ND (0.793)	7.16 87.2
1,2,4-Trichlorobenzene	ND (1.98) ND (3.71)	ND (0.793) ND (1.48)	2.39	ND (0.793) ND (1.48)	ND (0.793) ND (1.48)	ND (0.793) ND (1.48)	ND (1.48)
1,2,4-Trimethylbenzene	3.28	1.93	10.6	3	2.93	2.9	7.08
1,2-Dibromoethane (Ethylene Dibromide)	ND (3.84)	ND (1.54)	ND (1.54)	ND (1.54)	ND (1.54)	ND (1.54)	7.08 ND (1.54)
1,2-Dichlorobenzene	ND (3.01)	ND (1.2)	6.49	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.34)
1,2-Dichloroethane	ND (2.02)	30.9	ND (0.809)	6.68	ND (0.809)	ND (0.809)	9.63
1,2-Dichloropropane	ND (2.31)	1.52	ND (0.924)	1.16	ND (0.924)	ND (0.924)	4.71
1,2-Dichlorotetrafluoroethane (CFC 114)	ND (3.49)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
1,3,5-Trimethylbenzene	ND (2.46)	ND (0.983)	2.67	1.29	ND (0.983)	ND (0.983)	3.68
1,3-Butadiene	ND (1.11)	7.94	ND (0.442)	47.3	4.4	ND (0.442)	103
1,3-Dichlorobenzene	ND (3.01)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,4-Dichlorobenzene	ND (3.01)	ND (1.2)	13	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,4-Dioxane	ND (1.8)	ND (0.721)	ND (0.721)	ND (0.721)	ND (0.721)	ND (0.721)	1.5
2,2,4-Trimethylpentane	799	220	10	218	2220	2.63	13.9
2-Butanone (Methyl Ethyl Ketone)	7.99	38.3	24.6	45.4	34.5	14.5	104
2-Hexanone (Methyl Butyl Ketone)	ND (2.05)	ND (0.82)	1.03	ND (0.82)	ND (0.82)	1.27	17.5
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	ND (2.46)	ND (0.983)	5.7	ND (0.983)	ND (0.983)	ND (0.983)	1.48
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (5.12)	28.4	ND (2.05)	10.6	14.7	ND (2.05)	22.2
Acetone	43.2	271	96	297	211	89.8	969
Allyl chloride	ND (1.57)	ND (0.626)	ND (0.626)	ND (0.626)	ND (0.626)	ND (0.626)	ND (0.626)
Benzene	5.85	36.4	3.1	18.2	4.54	1.17	91.7
Benzyl Chloride (alpha-Chlorotoluene)	ND (2.59)	ND (1.04)	ND (1.04)	ND (1.04)	ND (1.04)	ND (1.04)	ND (1.04)
Bromodichloromethane	ND (3.35)	ND (1.34)	ND (1.34)	ND (1.34)	ND (1.34)	ND (1.34)	ND (1.34)
Bromoform	ND (5.17)	ND (2.07)	ND (2.07)	ND (2.07)	ND (2.07)	ND (2.07)	ND (2.07)
Bromomethane (Methyl Bromide)	ND (1.94)	ND (0.777)	ND (0.777)	ND (0.777)	ND (0.777)	ND (0.777)	ND (0.777)
Carbon disulfide	1.78	8.84	3.08	43	3.04	4.3	131
Carbon tetrachloride	ND (3.15)	ND (1.26)	ND (1.26)	ND (1.26)	ND (1.26)	ND (1.26)	ND (1.26)
Chlorobenzene	ND (2.3)	ND (0.921)	3.03	ND (0.921)	ND (0.921)	ND (0.921)	ND (0.921)
Chloroethane	ND (1.32)	0.552	ND (0.528)	ND (0.528)	ND (0.528)	ND (0.528)	ND (0.528)
Chloroform (Trichloromethane)	44.9	291	5.23	11.6	1.8	4.81	41.5
Chloromethane (Methyl Chloride)	ND (1.03)	2.03	ND (0.413)	0.993	ND (0.413)	0.481	3.9
cis-1,2-Dichloroethene	ND (1.98)	4.4	ND (0.793)	ND (0.793)	ND (0.793)	ND (0.793)	4.24
cis-1,3-Dichloropropene	ND (2.27)	ND (0.908)	ND (0.908)	ND (0.908)	ND (0.908)	ND (0.908)	ND (0.908)
Cyclohexane	5.92	56.5	0.895	8.88	10.8	ND (0.688)	70.2
Dibromochloromethane	ND (4.26)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
Dichlorodifluoromethane (CFC-12)	ND (2.47)	20 26.9	2.45 33	2.59 48.8	2.31 31.7	2.44	2.31
Ethanol Ethyl acotato	ND (23.6)	26.9 ND (1.8)	ND (1.8)	48.8 ND (1.8)	ND (1.8)	15.8 ND (1.8)	33.4 ND (1.8)
Ethyl acetate Ethylbenzene	ND (4.5) 8.86	7.34	25.7	4.82	3.71	2.78	ND (1.8) 11.5
Hexachlorobutadiene	ND (5.33)	7.34 ND (2.13)	ND (2.13)	4.82 ND (2.13)	3.71 ND (2.13)	ND (2.13)	ND (2.13)
Hexane	1.83	64.8	1.74	94.8	7.05	1.56	ND (2.13) 207
Isopropyl Alcohol (2-Propanol)	3.71	5.85	9.54	94.8 14.5	6.44	5.01	13.1
m,p-Xylenes	12.2	16.5	28.5	13.2	10.8	8.6	18.6
Methyl Tert Butyl Ether (MTBE)	ND (1.8)	ND (0.721)	ND (0.721)	ND (0.721)	ND (0.721)	ND (0.721)	ND (0.721)
Methylene chloride (Dichloromethane)	ND (4.34)	69.5	2.01	2.39	ND (1.74)	10.4	18.7
N-Heptane	ND (2.05)	71.7	1.43	30.9	10.1	0.959	82.8
o-Xylene	7.51	8.21	13.7	7.73	4.86	4.06	8.95
Styrene	ND (2.13)	ND (0.852)	13.2	1.51	1.37	1.76	5.88
Tert-Butyl Alcohol (tert-Butanol)	17.6	33.6	37.6	35.2	37.6	23.3	45.5
Tetrachloroethene	49	4.18	21.6	313	35.5	32.7	113
Tetrahydrofuran	19.8	35.7	54.9	52.5	49.8	26.2	41.3
Toluene	19.3	69.7	61.4	44.8	35.1	26.9	77.6
trans-1,2-Dichloroethene	ND (1.98)	ND (0.793)	ND (0.793)	ND (0.793)	ND (0.793)	ND (0.793)	ND (0.793)
trans-1,3-Dichloropropene	ND (2.27)	ND (0.908)	ND (0.908)	ND (0.908)	ND (0.908)	ND (0.908)	ND (0.908)
Trichloroethene	77.9	145	29.1	55.9	12.8	3.32	37.1
Trichlorofluoromethane (CFC-11)	5.68	1.58	5.2	14.9	3.2	4.27	7.64
Trifluorotrichloroethane (Freon 113)	ND (3.83)	ND (1.53)	ND (1.53)	ND (1.53)	ND (1.53)	ND (1.53)	ND (1.53)
Vinyl Bromide (Bromoethene)	ND (2.19)	0.927	ND (0.874)	ND (0.874)	ND (0.874)	ND (0.874)	ND (0.874)
Vinyl chloride	ND (1.28)	82.6	ND (0.511)	ND (0.511)	ND (0.511)	ND (0.511)	2.61
SUM of VOCs	1135.31	1663.799	528.885	1483.453	2761.48	293.13	2491.37
SUM of CVOCs	126.9	305.68	52.71	402.79	49.73	47.63	332.65
SUM of BTEX	53.72	138.15	132.4	88.75	59.01	43.51	208.35

ABBREVIATIONS AND NOTES:

 $\mu g/m^3$: micrograms per cubic meter

BTEX: Benzene, Toluene, Ethylbenzene, Xylenes

CVOCs: Chlorinated volatile organic compounds

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

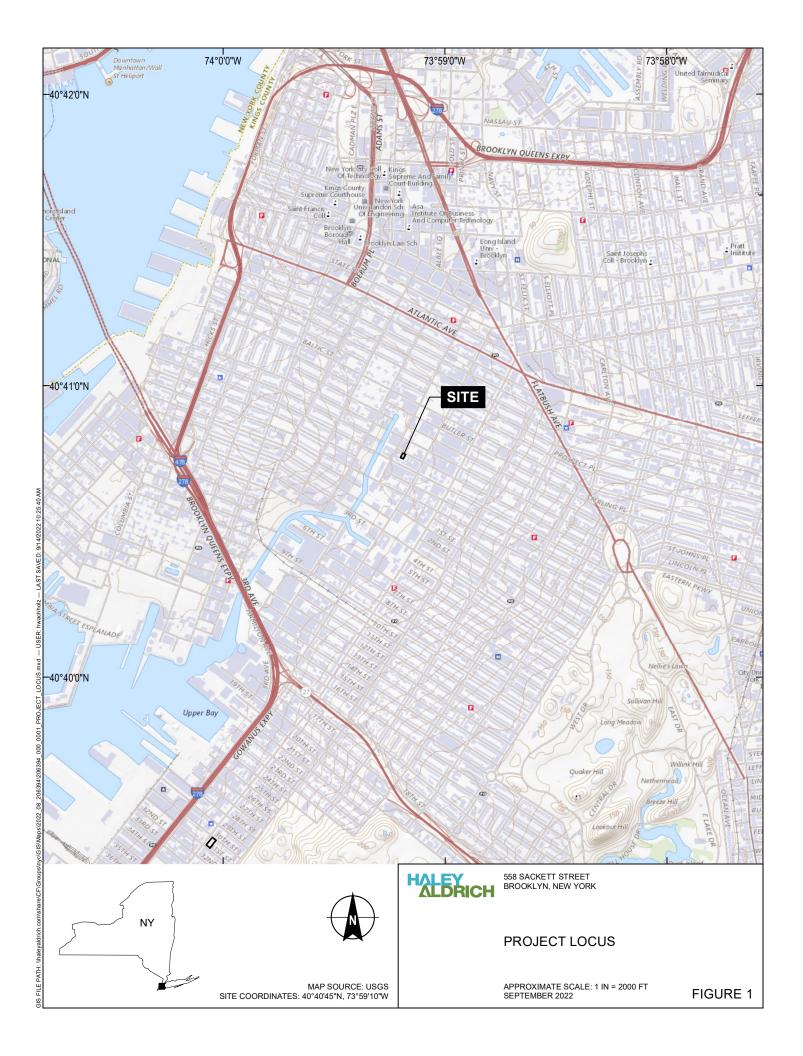
VOCs: Volatile Organic Compounds

⁻ For test methods used, see the laboratory data sheets.

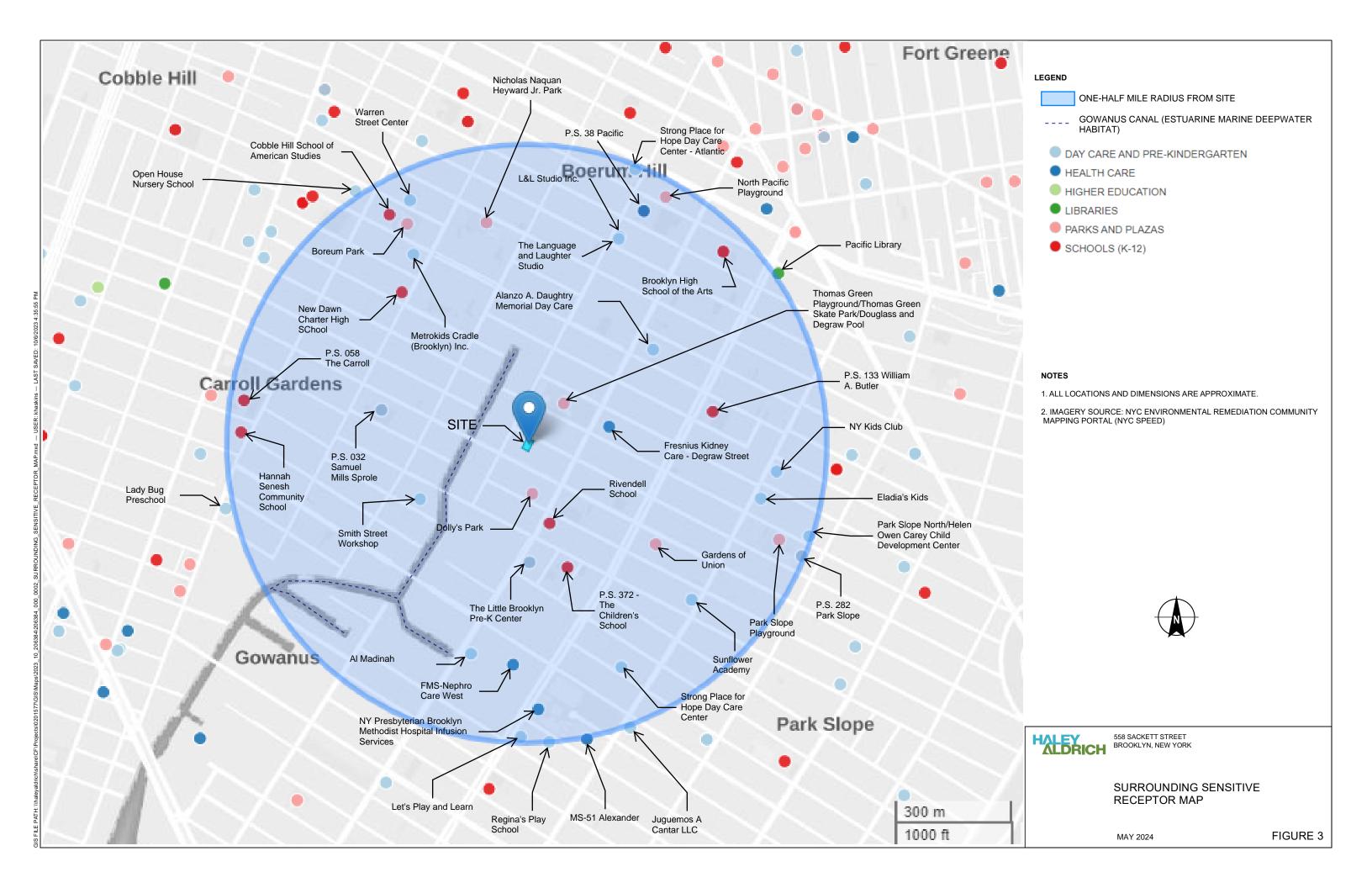
⁻ SUM of CVOCs includes the following compounds: carbon tetrachloride, 1,1-dichloroethene,

 $cis-1, 2-dichloroethene,\ trichloroethene,\ methylene\ chloride,\ tetrachloroethene,\ 1, 1, 1-trichloroethane,\ vinyl\ chloride$

FIGURES

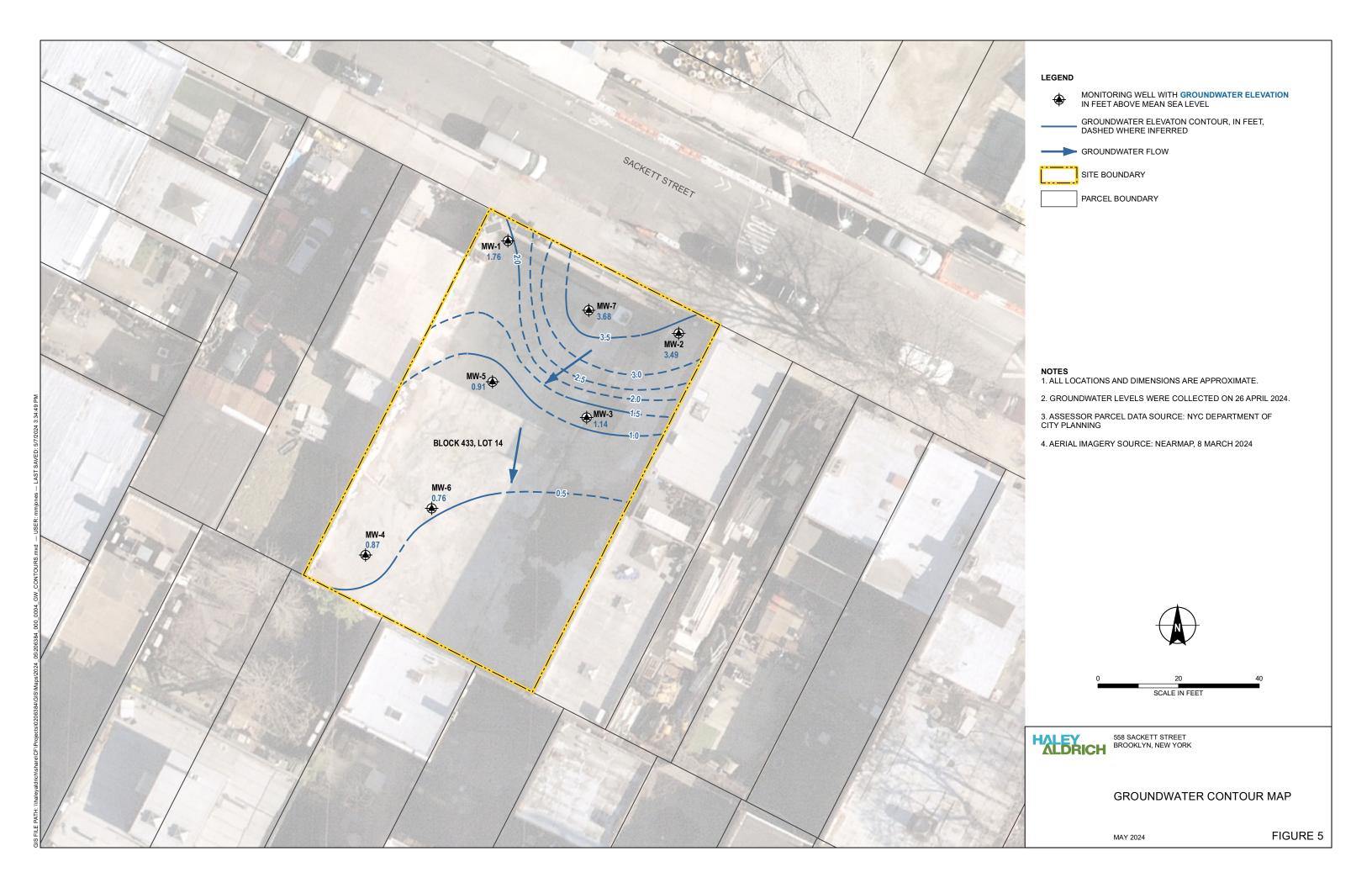














MONITORING WELL/SOIL BORING SAMPLE LOCATION

SOIL BORING SAMPLE LOCATION



SITE BOUNDARY

PARCEL BOUNDARY

- 1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- 2. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (SCOS), RESTRICTED-RESIDENTIAL SCOS, AND 40 CFR 261 SUBPART C AND TABLE 1 OF 40 CFR 261.24.
- 3. NY-RESR = NYSDEC PART 375 RESTRICTED-RESIDENTIAL USE SCO
- 4. NY-UNRES = NYSDEC PART 375 UNRESTRICTED USE SCO
- 5. NY-PGW = NYDEC PART 375 PROTECTION OF GROUNDWATER
- 6. EXCEEDANCES OF THE NY-UNRES SCOS ARE SHADED GRAY
- 7. EXCEEDANCES OF THE NY-UNRES AND NY-RESRR ARE SHADED
- 8. EXCEEDANCES OF THE NY-PGW ARE SHOWN IN BLACK TEXT AND IN
- 9. RESULTS ARE DISPLAYED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- 10. ASSESSOR PARCEL DATA SOURCE: NYC DEPARTMENT OF CITY PLANNING
- 11. AERIAL IMAGERY SOURCE: NEARMAP, 19 JULY 2022

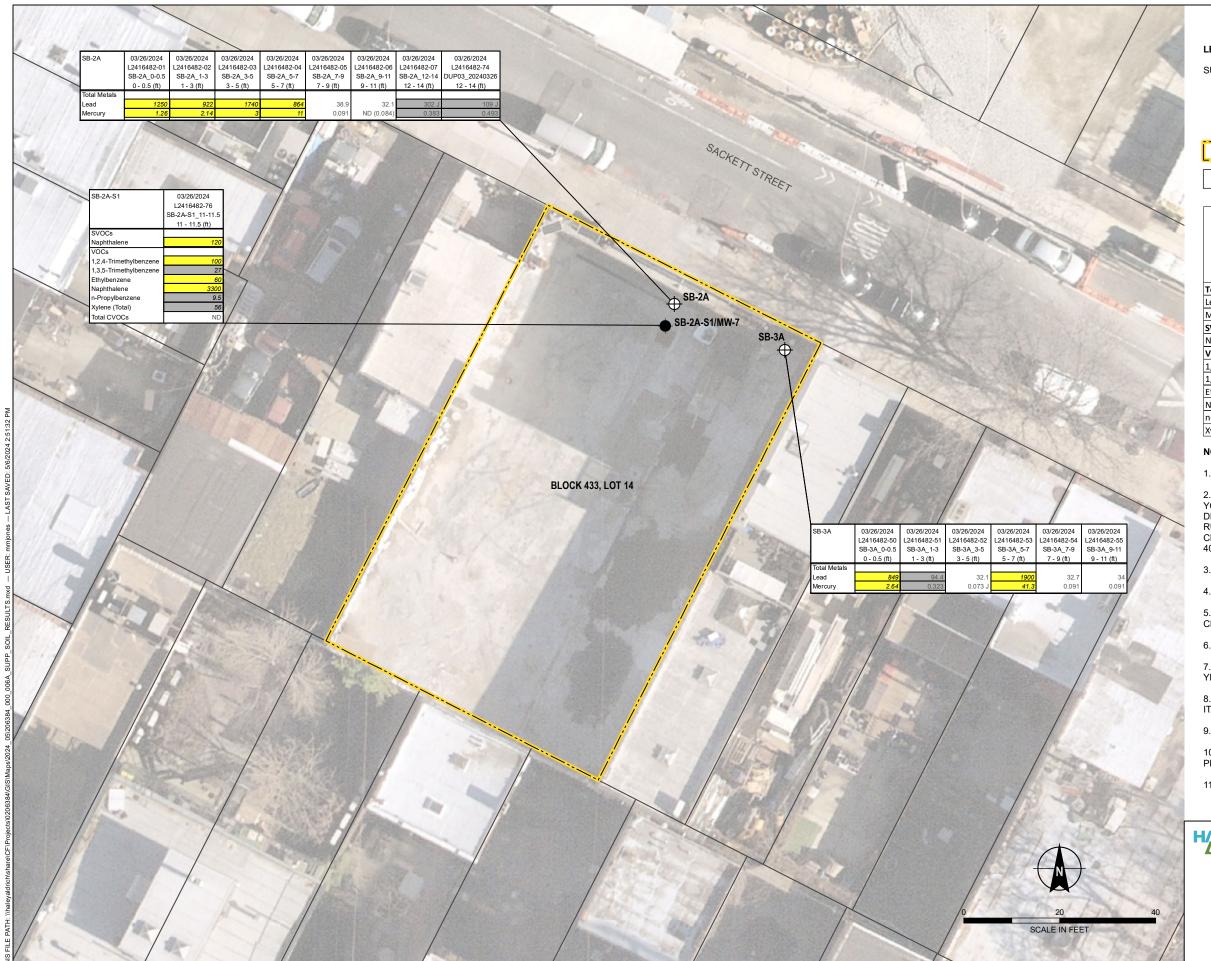
		Action Level	
	Restricted Use Soil	NY Part 375	NY Part 375
	Cleanup Objectives -	Restricted Residential	Unrestricted Use
	Protection of	Use	Soil Cleanup
	Groundwater	Soil Cleanup Objectives	Objectives
Volatile Organic Compounds (mg/kg)			
1,2,4-trimethylbenzene	3.6	52	3.6
1,3,5-trimethlybenzene	8.4	52	8.4
2-Phenylbutane (sec-Butylbenzene)	11	100	11
Ethlybenzene	1	41	1
Naphthalene	12	100	12
n-Butylbenzene	12	100	12
n-Propylbenzene	3.9	100	3.9
Acetone	0.05	100	0.05
Benzene	0.06	4.8	0.06
Semi-Volatile Organic Compounds (mg/l	(g)		
Benzo(a)anthracene	1	1	1
Benzo(a)pyrene	22	1	1
Benzo(b)fluoranthene	1.7	1	1
Benzo(k)fluoranthene	1.7	3.9	0.8
Chrysene	1	3.9	1
Dibenz(a,h)anthracene	1000	0.33	0.33
Indeno(1,2,3-cd)pyrene	8.2	0.5	0.5
Pesticides (mg/kg)			
4,4'-DDD	14	13	0.0033
4,4'-DDE	17	8.9	0.0033
4,4'-DDT	0.19	0.097	0.005
Total Metals (mg/kg)			
Arsenic	16	16	13
Barium	820	400	350
Beryllium	47	72	7.2
Cadmium	7.5	4.3	2.5
Copper	1720	270	50
Lead	450	400	63
Manganese	2000	2000	1600
Mercury	0.73	0.81	0.18
Nickel	130	310	30
Zinc	2480	10000	109
Polychlorinated Byphenyls (mg/kg)			
Total PCBs	3.2	1	1



REMEDIAL INVESTIGATION
558 SACKETT STREET
BROOKLYN, NEW YORK REMEDIAL INVESTIGATION REPORT

> SOIL SAMPLE RESULTS **EXCEEDANCES MAP**

FIGURE 6 OCTOBER 2023



LEGEND

SUPPLEMENTAL SAMPLE



SOIL BORING



SOIL BORING/MONITORING WELL



SITE BOUNDARY



PARCEL BOUNDARY

	Restricted Use Soil Cleanup Objectives - Protection of Groundwater	NY Part 375 Restricted Residential Use Soil Cleanup Objectives	NY Part 375 Unrestricted Use Soil Cleanup Objectives	
Total Metals (mg/kg)				
Lead	450	400	63	
Mercury	0.73	0.81	0.18	
SVOCs (mg/kg)				
Naphthalene	12	100	12	
VOCs (mg/kg)				
1,2,4-Trimethylbenzene	3.6	52	3.6	
1,3,5-Trimethylbenzene	8.4	52	8.4	
Ethylbenzene	1	41	1	
Naphthalene	12	100	12	
n-Propylbenzene	3.9	100	3.9	
Xylene (Total)	1.6	100	0.26	

NOTES

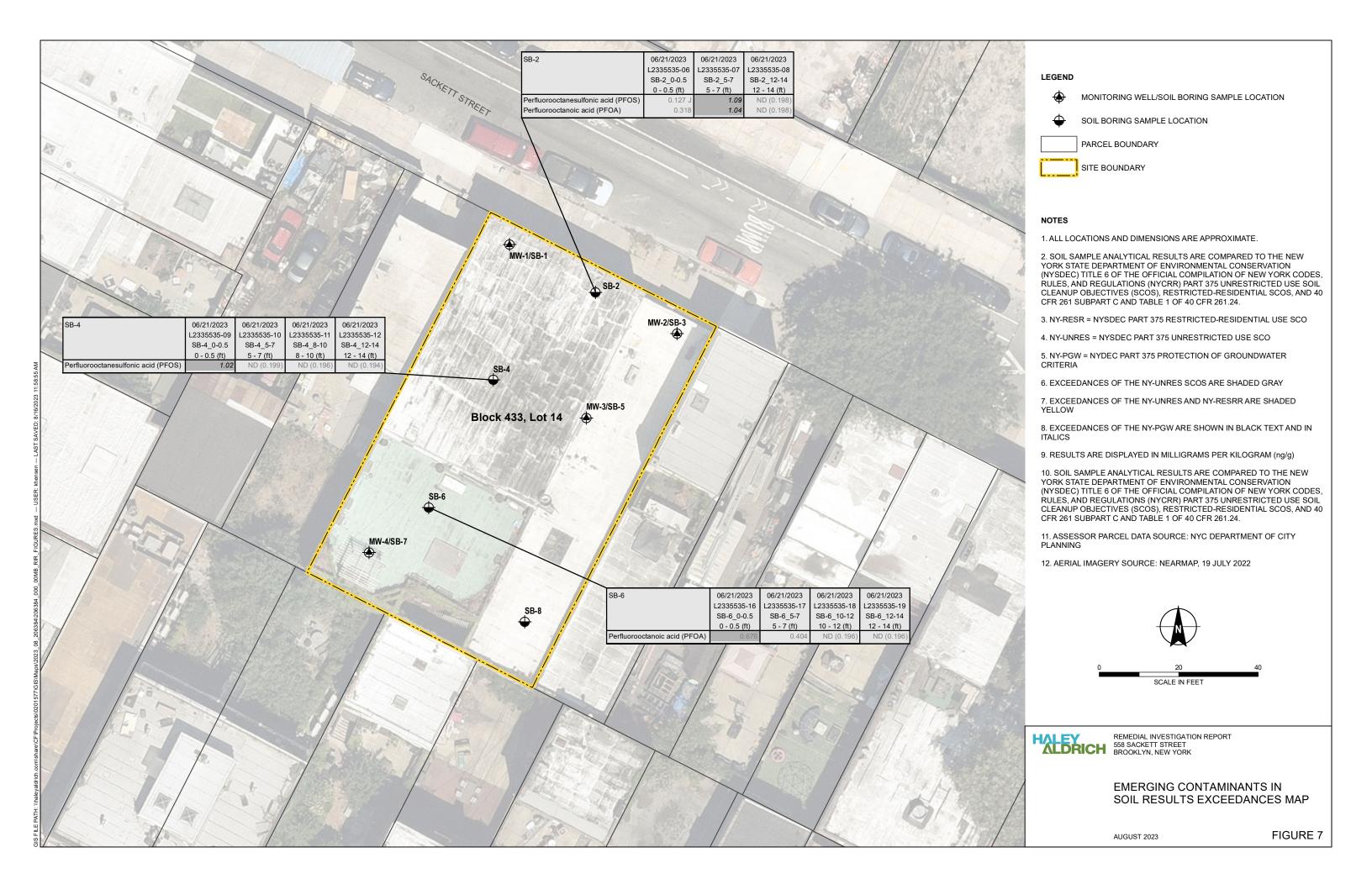
- 1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- 2. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYS DEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (SCOS), RESTRICTED-RESIDENTIAL SCOS, AND 40 CFR 261 SUBPART C AND TABLE 1 OF 40 CFR 261.24.
- 3. NY-RES R = NYS DEC PART 375 RESTRICTED-RES IDENTIAL USE SCO
- 4. NY-UNRES = NYS DEC PART 375 UNRESTRICTED USE SCO
- 5. NY-PGW = NY DEC PART 375 PROTECTION OF GROUNDWATER CRITERIA
- 6. EXCEEDANCES OF THE NY -UNRES SCOS ARE SHADED GRAY
- 7. EXCEEDANCES OF THE NY-UNRES AND NY-RESRR ARE SHADED YELLOW.
- 8. EXCEEDANCES OF THE NY-PGW ARE SHOWN IN BLACK TEXT AND IN ITALICS.
- 9. RESULTS ARE DISPLAYED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- 10. ASSESSOR PARCEL DATA SOURCE: NYC DEPARTMENT OF CITY PLANNING
- 11. AERIAL IMAGERY SOURCE: NEARMAP, 8 MARCH 2024

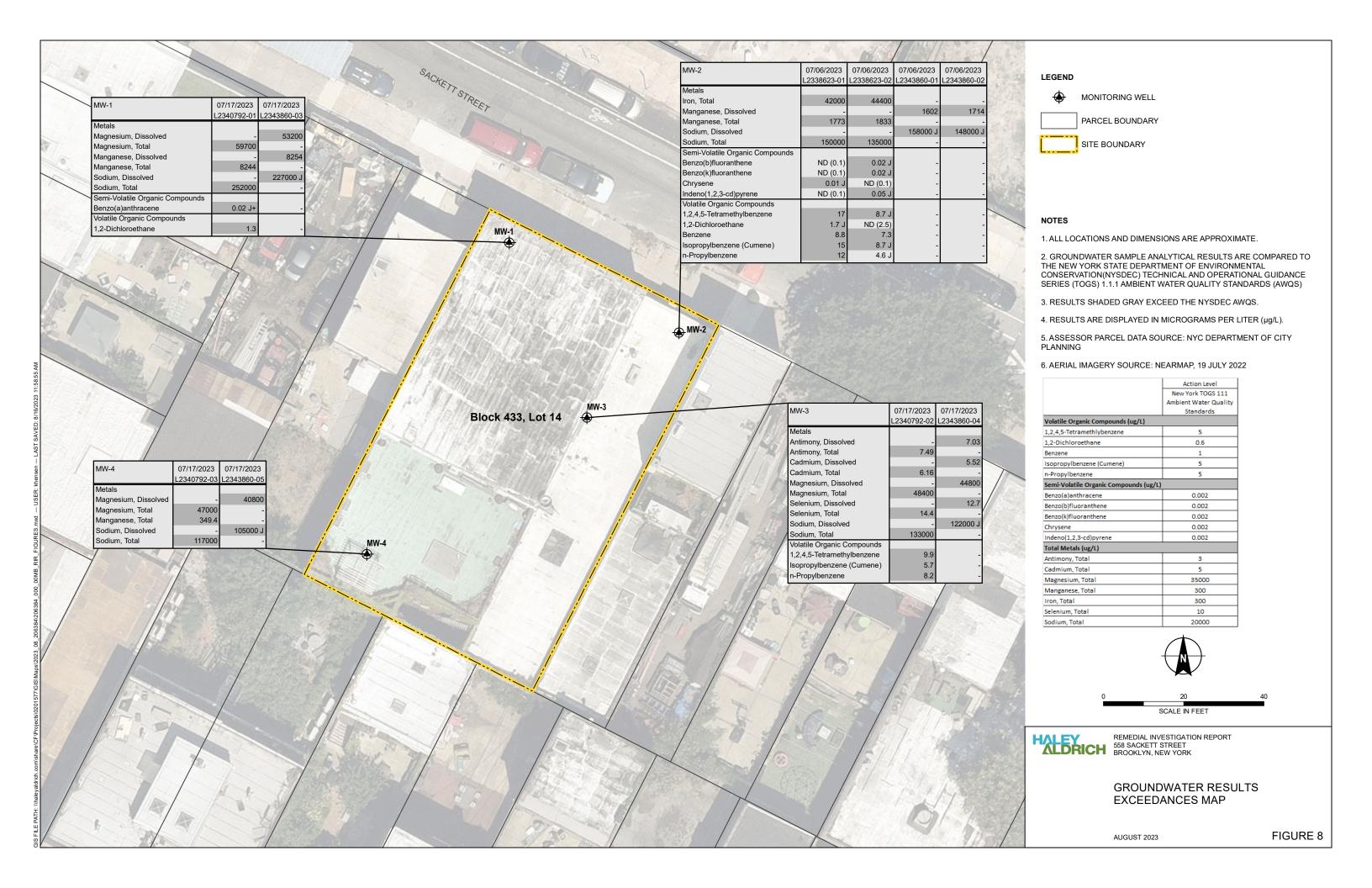


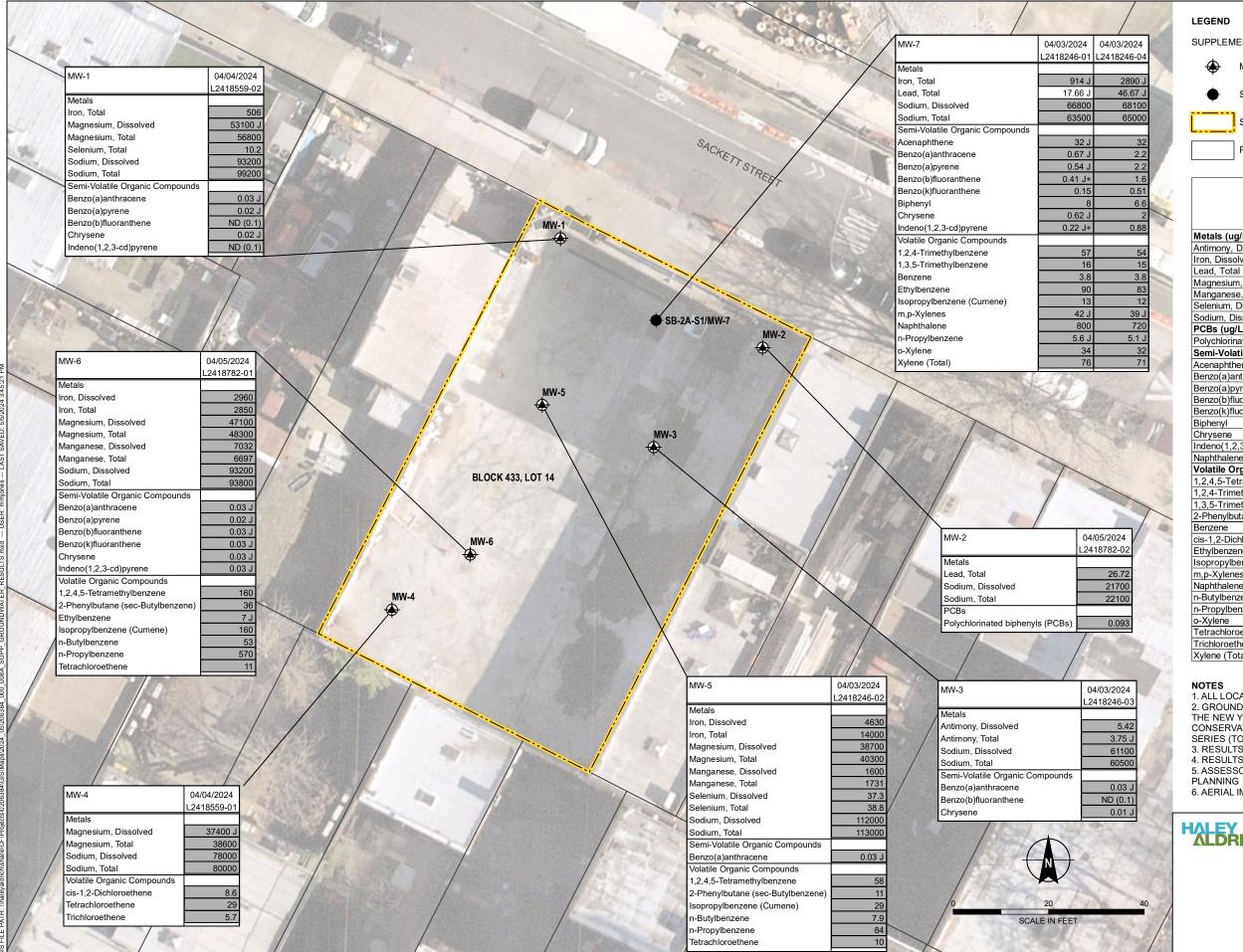
558 SACKETT STREET BROOKLYN, NEW YORK

SUPPLEMENTAL SOIL RESULTS EXCEEDANCE MAP

MAY 2024 FIGURE 6A







SUPPLEMENTAL SAMPLE



MONITORING WELL



SOIL BORING/MONITORING WELL



SITE BOUNDARY



PARCEL BOUNDARY

	New York TOGS 111 Ambient Water Quality Standards
Metals (ug/L)	•
Antimony, Dissolved & Total	3
Iron, Dissolved & Total	300
Lead, Total	25
Magnesium, Dissolved & Total	35000
Manganese, Dissolved & Total	300
Selenium, Dissolved & Total	10
Sodium, Dissolved & Total	20000
PCBs (ug/L)	*
Polychlorinated biphenyls (PCBs)	0.09
Semi-Volatile Organic Compounds (up	g/L)
Acenaphthene	20
Benzo(a)anthracene	0.002
Benzo(a)pyrene	0
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Biphenyl	5
Chrysene	0.002
Indeno(1,2,3-cd)pyrene	0.002
Naphthalene	10
Volatile Organic Compounds (ug/L)	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
2-Phenylbutane (sec-Butylbenzene)	5
Benzene	1
cis-1,2-Dichloroethene	5
Ethylbenzene	5
Isopropylbenzene (Cumene)	5
m,p-Xylenes	5
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene	5
Tetrachloroethene	5
Trichloroethene	5
Xylene (Total)	5

- 1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- 2. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AM BIENT WATER QU ALITY STANDARDS (AWQS).
- 3. RESULTS SHADED GRAY EXCEED THE NYSDEC AWQS.
- 4. RESULTS ARE DISPLAYED IN MICROGRAMS PER LITER (µg/L). 5. ASSESSOR PARCEL DATA SOURCE: NYC DEPARTMENT OF CITY
- 6. AERIAL IMAGERY SOURCE: NEARMAP, 8 MARCH 2024

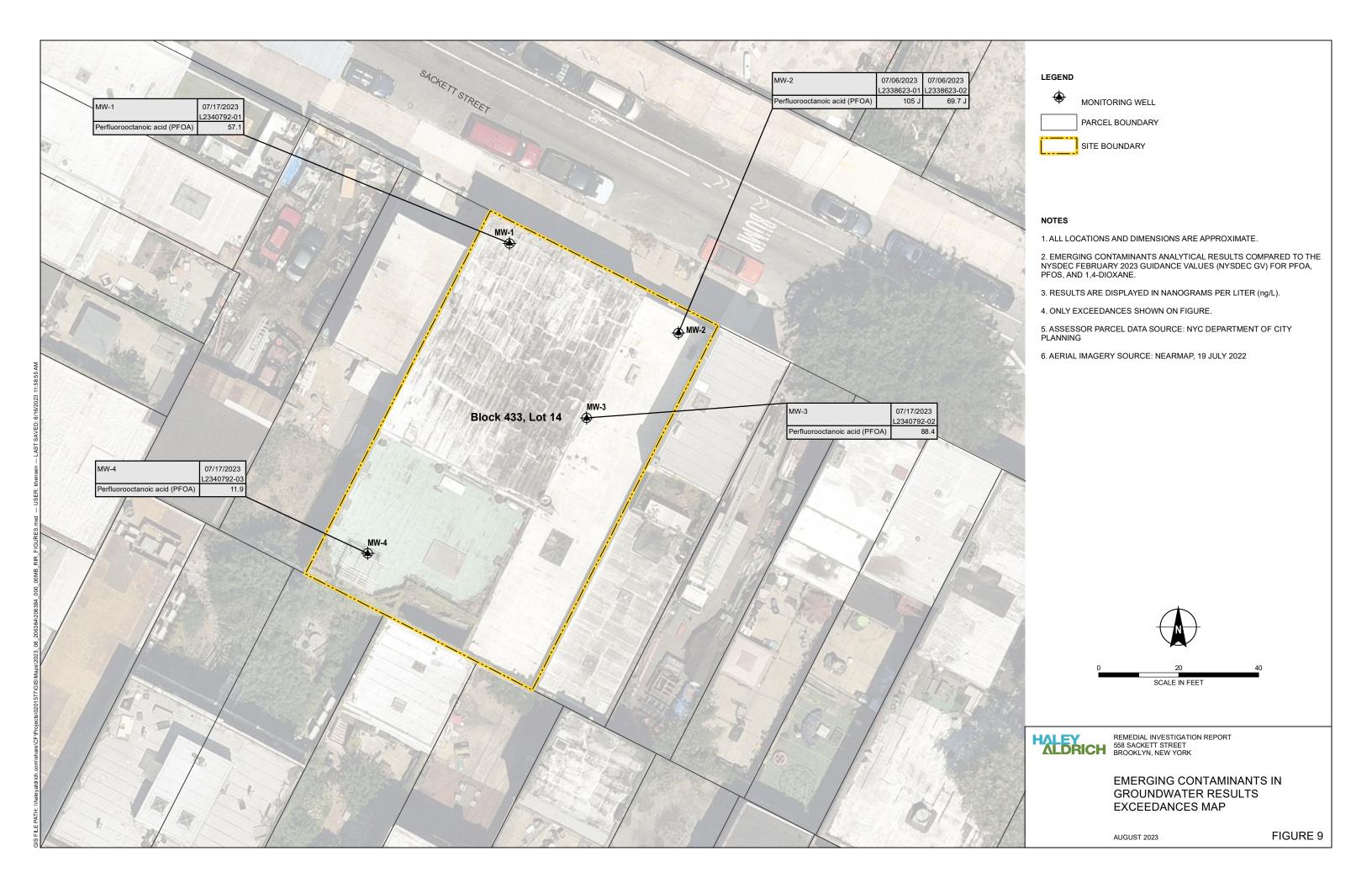


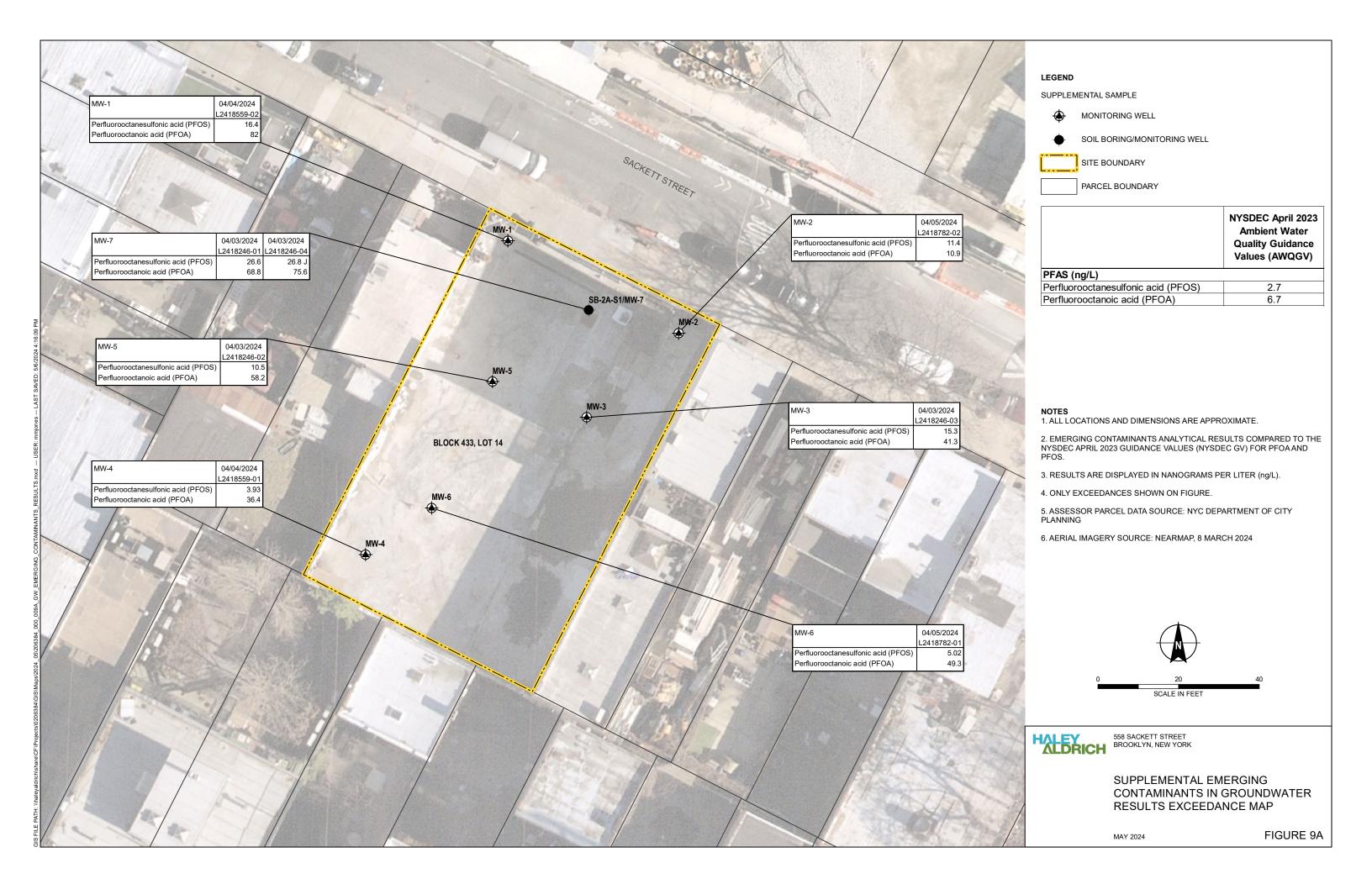
558 SACKETT STREET BROOKLYN, NEW YORK

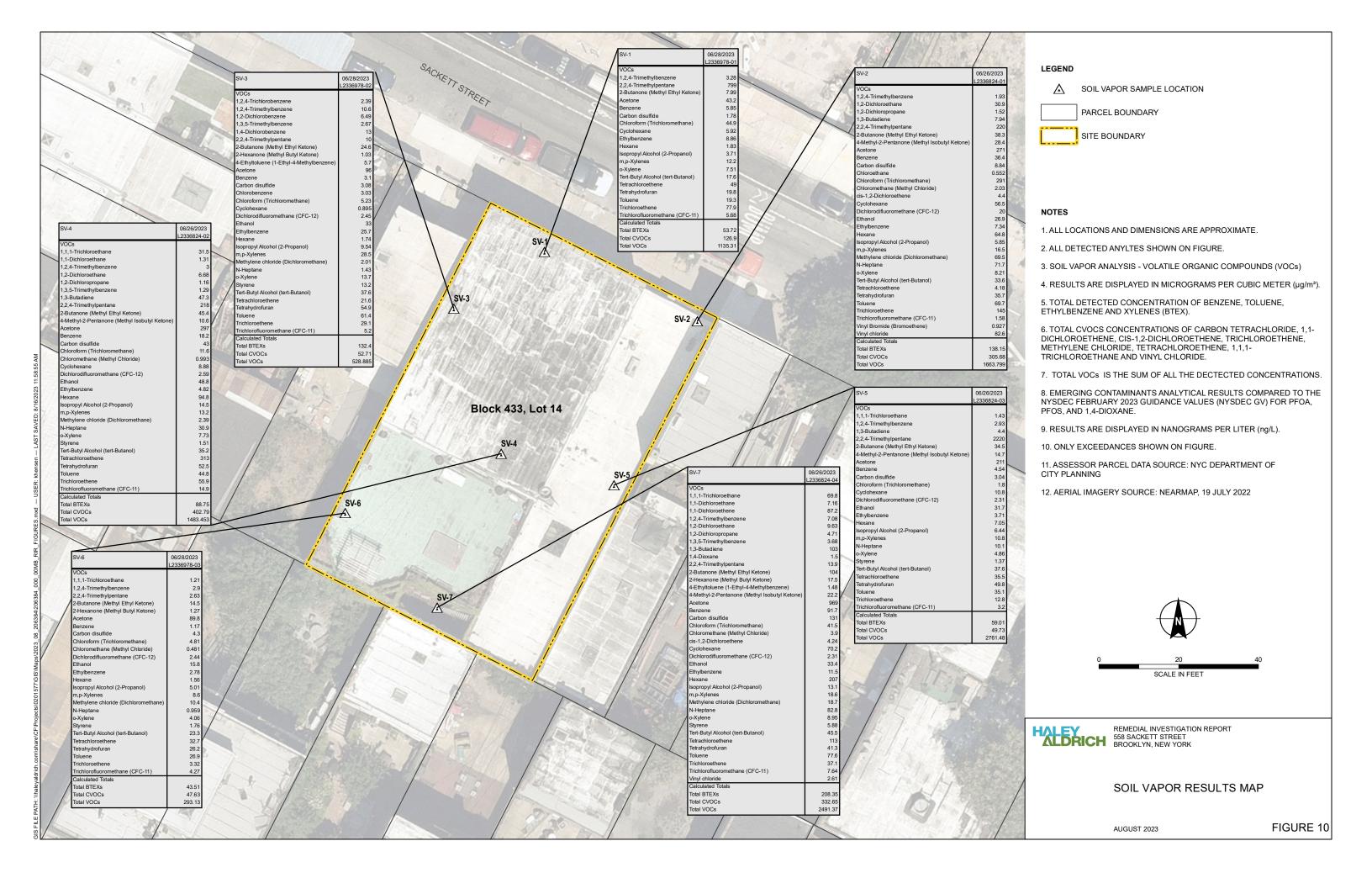
SUPPLEMENTAL GROUNDWATER RESULTS EXCEEDANCE MAP

MAY 2024

FIGURE 8A







APPENDIX A Ground Penetrating Radar Survey Report

Goastal Environmental Solutions, Inc.

GEOPHYSICAL INVESTIGATION REPORT

7.17.2023

558 Sackett Street, Brooklyn, NY Dates of Investigation: 6/21/2023

Prepared for:

Haley & Aldrich of New York 70 Blanchard Road, Suite 204 Burlington, MA 01803

Prepared By:



Dennis Berthold Director of Geophysical Operations Coastal Environmental Solutions, Inc. PO Box 342 Medford, New York 11763

1.0 INTRODUCTION

On 6/21/2023, Coastal Environmental Solutions, Inc (Coastal) personnel performed a limited geophysical investigation at 558 Sackett Street, Brooklyn, NY. The areas of interest included the entirety of the site including remnants of the former building foundations and other areas. Surface conditions consisted of concrete and soil.

2.0 SCOPE OF WORK

1. Locate and mark detectable underground utilities within accessible areas throughout the property for the purposes of clearing soil boring locations.

3.0 EQUIPMENT

ImpulseRadar PinPointR Ultra-Wide Band (UWB) Penetrating Radar System

Ground Penetrating RADAR (GPR) is a non-destructive geophysical method that produces a continuous cross-sectional profile of subsurface features in real time. GPR operates by transmitting both high and low frequency electromagnetic wave pulses down into the ground through a transmitter in the antenna. The transmitted electromagnetic waves reflect off materials with contrasting dielectric properties from surrounding medium such as underground storage tanks, utilities, distinct contacts between different earth materials, and other various subsurface objects. The antenna receiver collects the reflected electromagnetic waves which are then interpreted by the operator.

The ImpulseRadar PinPointR UWB GPR utilizes a dual band 400/800 MHz HS antenna mounted to a stroller frame which rolls over the surface. The total depth of penetration achieved with the antenna can be up to 10 feet but widely varies based on site-specific subsurface conditions. Conductive materials in the soil attenuate the GPR signal causing a decrease in effective depth of penetration and clarity.

Vivax-Metrotech vLoc3-Pro Receiver/Transmitter

The vLoc3-Pro Receiver is a hand-operated antenna capable of detecting electromagnetic (EM) fields emitted from a source. The EM antenna can detect pipes and cables in the ground at depths of up to 20 feet using active or passive tracing techniques. Passive tracing is the act of locating an underground utility through the detection of electrical or radio signals travelling along conductive utilities. Active tracing is used in conjunction with the Transmitter that is directly connected to the target utility or to a conductive rodder within a non-conductive line. A signal is sent through the utility at a specific frequency that can be detected by the Receiver. The detectability of a target utility depends on many factors including access to the target utility, grounding, depth of utility, conductivity, and other site-specific factors.

TW-6 Pipe and Cable Locator

The TW-6 Pipe and Cable locator is a handheld magnetometer which utilizes a transmitter-receiver pair attached to opposite ends of a handle and carried approximately 1-2ft from the surface. The magnetometer induces an electromagnetic (EM) field into the ground that is generated by the transmitter. Once the induced EM field passes through a buried metallic object, it generates a

secondary EM field which is detected by the receiver, generating an audible tone. Based on the calibration of the magnetometer, the audible tone reflects the strongest response as the highest pitched sound, trailing off on all sides of the peak. This piece of technology can be used to detect subsurface features such as metallic USTs, large diameter conductive pipes, and buried manholes, especially in areas in which traditional GPR methods cannot be utilized, such as overgrown or uneven surfaces.

4.0 METHODOLOGY

- 1. A subsurface investigation was performed in close proximity to the client proposed soil boring locations. Active and passive detection methods were utilized with the VLoc3-Pro receiver/transmitter. Coastal personnel direct connected to all accessible and traceable pipes, conduits, valve covers, and any other surface feature throughout the site. A passive scan was performed throughout the site to detect any potential underground utilities that could not be located with active scan.
- 2. The TW-6 was utilized (if applicable) to sweep any accessible areas for suspected UST locations in 3-to-5-foot spacings for readings that may represent a buried metallic anomaly. Upon detection of a reading, the approximate size and shape of the anomalous area was marked on the surface to be investigated further with GPR.
- 3. GPR was utilized to further characterize the approximate dimensions, depth, and shape of the anomalies located with the TW-6. The remainder of the areas around suspected UST locations (if applicable) were scanned with GPR in 3-to-5-foot spacing to locate any anomalous features not previously detected such as non-conductive piping and former excavations.
- 4. All findings were marked on the surface utilizing the American Public Works Association (APWA) recommended color code, seen below:

WHITE	Proposed Excavation
PINK	Temporary Survey Markings (Approximate UST Locations, Soil Boring Locations)
RED	Electric Power Lines, Cables, Conduit and Lighting Cables
YELLOW	Gas, Oil, Steam, Petroleum or Gaseous Materials
ORANGE	Communication, Alarm or Signal Lines, Cables or Conduit
BLUE	Water (Domestic and Fire Lines)
PURPLE	Irrigation (Not commonly used)
GREEN	Sewers and Drain Lines

5.0 SUMMARY OF FINDINGS

Subsurface Investigation

Coastal personnel conducted a subsurface investigation within all accessible areas of concern. All detections were marked in the field in accordance with the APWA guide above. All detections were then reviewed with H&A personnel prior to drilling activities. All utilities were taken out of service leading onto the above referenced property prior to our investigation. Remnants of drain lines and building foundations were located and marked in order to avoid them. Portions of a

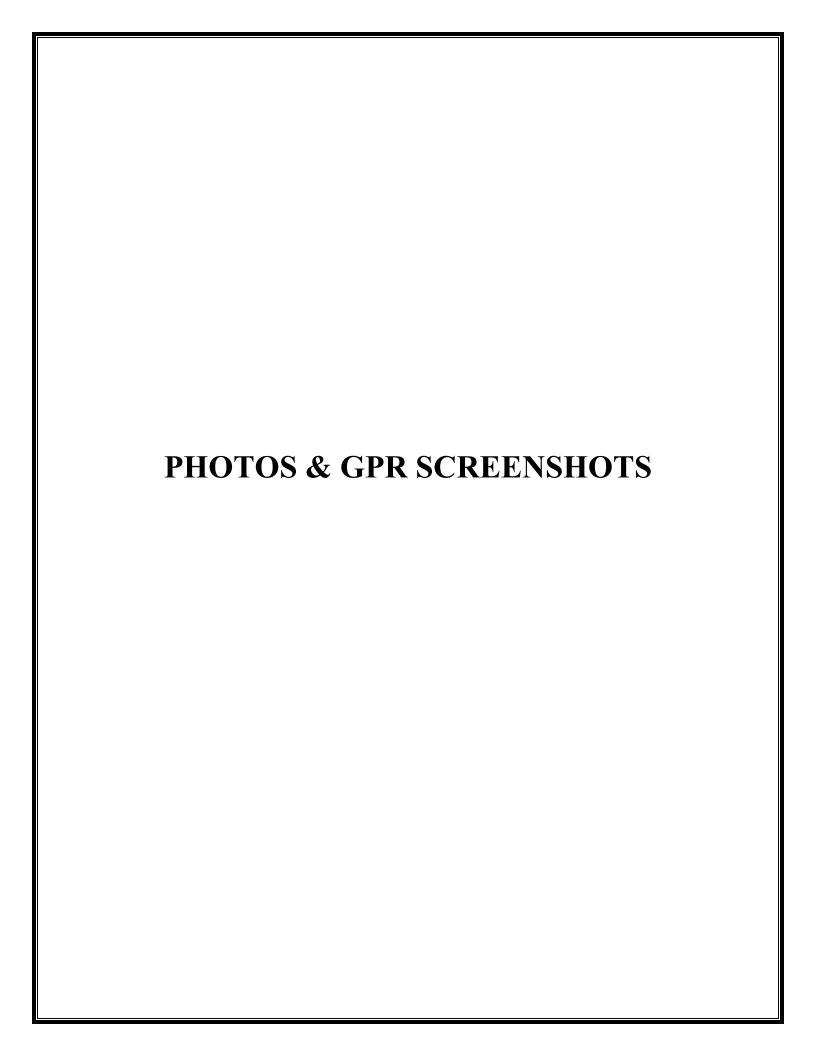
backfilled basement were located based on the existing walls and marked out in the field prior to drilling operations.

Limitations

The effective depth of GPR penetration was limited to approximately 2 feet below the soil and concrete grade. The limiting factor was likely due to soil conductivity attenuating the GPR signal, shallow bedrock containing moisture, or non-conductive materials utilized for the utilities. The TW-6 is unable to be utilized within close proximity to parked vehicles and exterior walls, or on top of reinforced concrete.

Disclaimer

The subsurface investigation was performed by Coastal after considering the limits of the scope of work and the time constraint for the investigation. The investigation that is described in this report was undertaken in accordance with current accepted standards and practices of the geophysical survey industry. The results and interpretations that are presented are based on professional judgment and are as accurate as can reasonably be achieved. However, no geophysical equipment can accurately depict all subsurface features due to the geology and environmental conditions of the subsurface. Any intrusive work in proximity to identified anomalies should be carefully considered and cross-referenced with all available site-specific documentation. Coastal is not liable for the use, interpretation, or application of the data and information in this report.



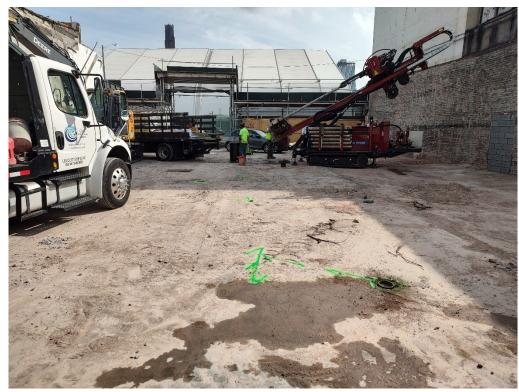
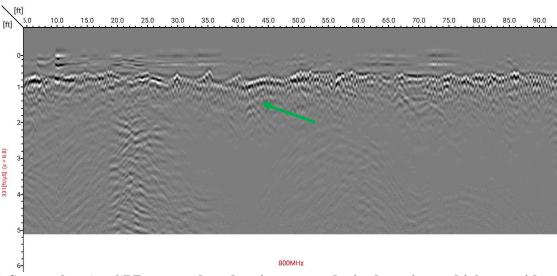


Photo 1 – Photo of the site during drilling operations showing the demolished lot. Multiple detections were located with GPR during the first investigation which were determined to be former storm drain utilities.



GPR Screenshot 1 – GPR screenshot showing storm drain detections which were identified and marked in the field. Clear areas were identified to perform drilling operations.



Photo 2 – Additional drainage structures identified in the field.



Photo 3 – Photo of the partially backfilled basements present on site which were covered and labeled for safety. Also visible in this photo are the disconnected lines formerly used for water (blue) and sewer (green) utilities.



Photo 4 – Photo of one of the debris piles present which prevented subsurface investigation in their immediate area. GPR scans were performed by Coastal around this debris pile to determine the absence of any utilities.

APPENDIX B Soil Boring Logs

SOIL BORING LOG

BORING NO.

SB-1

															Page	e 1	of 3	3
ROJECT	_			58 Sackett Street							OJECT :			0206384				
OCATION LIENT		Sackett Heig	Street, Brookly	yn, NY							OJECT I			M. Conl		Z.Simmel		_
ONTRAC	TOR		ironmental Sol	utions Inc							TE STAI			6/21/202		Sillillei		
RILLER		Pat Slavin	nonnientai 501	utions, me.							TE FINIS			6/21/202				
levation		ft.	Datum	li	Boring L	ocation	See Plan								_			=
em		Casing				& Model		lkamp C	RS XL 140 Duo	ŀ	Hammer	Туре	Dr	illing Mud	丁	Casing	Advance	,
уре		Steel		Steel	Truck		Tripod	V	Cat-Head	T	Safe			Bentonit		Type Me	thod Dept	th
side Diam ammer We		6" NA		3" NA	ATV Track		Geoprobe Air Track	H	Winch Roller Bit	45		ghnut	$\overline{\mathbf{Z}}$	Polymer	*	s	onic	
ammer Fa		NA NA		NA NA	Skid	1	Other		Cutting Head	Dril	lling Note			None				
	. /								Ü						П			
epth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(C	olor, prima			nual Identification & D dary component, optional			or, moistu	re [SYM	IBOL])		Rer	marks	
0 =		0.0				D 4-		1:	8" Concrete SAND, crushed concrete	lendal. 4	C		4 (TTT	T 1				
1		0.0	0-0.5	SB-1_0-0.5		DIOWITE	dark blown line o) inculuin	SAIVE, CLUSICA CONCICIC	, once i	magments,	, no odor,	diy [i ii	21.)				
	****	0.0													=			
2	20/60	0.0	1-2	SB-1_ 1-2											_			
3		0.0																
		0.0																
4		0.0																_
. 5																		
6		0.0				Brown to o	dark brown, fine to	medium S	AND, brick and concrete	e fragme	ents, grave	el, no odo	r, dry [F	ILL]	_			
•		0.0	5-7	SB-1_5-7														
7	20/60														=			
8		0.0													_			
ŭ		0.0																
9															_			
		0.0																
10		0.8	10-12	SB-1_10-12		Brown to	dark brown fine si	ltv SAND	, some medium sand, mo	derate r	oetroleum-	like odor.	moist [SP1			st @ 10'	
11		0.9						,	,	г			, [-	1		Slighty st	tained 10-13	3'
12		0.9																_
	40/60	1.1																
13		0.9	12-14	SB-2_12-14											_			
14		0.9	12-14	3B-2_12-14														
		1.4													_			
15		0.3					Brown to bla	ck, fine to	medium SAND, some gr	ravel. no	o odor, we	t [SP]			_	We	t @ 15'	
16								,			, , , , , , , , , , , , , , , , , , , ,	,						
17		0.1													_			
''	31/60	0.0					Brown to red	brown, fii	ne silty SAND, some med	dium, no	o odor, we	t [SP]						
18															=			
19		0.0													_			
		0.0																
20 -		0.0				*	Proum to rod L	fine to	andium SAMD	and	wal no -1	OF Wet F	CD1		_			
21		0.0				E	orown to red brown	i, mie to m	nedium SAND, some silt	and gra	.vc1, 110 Od	or, wet [or j					_
2		0.0																_
22		0.0													+			_
23	40/60					Brow	n to red brown, m	edium to c	ourse SAND, some fine s	sand and	d gravel, n	o odor, w	et [SP]					
24		0.0													_			
24		0.0																
25															1			
26		0.0				Brow	vn to red brown, m	edium to c	oarse SAND, some fine s	sand and	d gravel, n	o odor, w	et [SP]		+			_
		0.0																
27	37/60	0.0													_			
28		0.0																
2		0.0																_
29		0.0													+			_
30																		
		0.0 Water	Level Data		-			Sample I	D		1			Summ	arv			
		**alei		epth in feet to:	-			oumple I	-					Juliill	ш. у			
Date	Time	Elapsed		•				Open En			Overbur					100		
		Time (hr.)		Water	T Thin Wall Tube Rock Cored (Linear ft.) U Undisturbed Sample Number of Samples						5							
							s	Split Spo	on Sample						_			
					\blacksquare		G	Geoprob	е		BORING	NO.			ş	SB-1		
	1	<u> </u>	*N(OTE: Maximum Parti	cle Size	is determ	ined by direct o	bservati	on within the limitation	ons of	sampler	size.			—			
Form	#3000	NC							ual identification as p				ldrich,	Inc.	_			

ALDRICH					Soil Boring Log							
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks						
30		0.0			Brown fine to medium SAND, no odor, wet [SP]							
31		0.0										
32	42/60	0.0										
33		0.0										
34		0.0										
35		0.0			Brown, medium to coarse SAND with rounded gravel, no odor, wet [SP]							
36		0.0										
37	32/60	0.0										
38		0.0										
39		0.0										
40		0.0			Brown, fine to medium SAND, no odor, wet [SP]							
41		0.0										
42	45/60	0.0										
43		0.0										
44		0.0										
45		0.0			Brown, fine to medium SAND, some gravel, no odor, wet [SP]	-						
46		0.0				-						
47	32/60	0.0				-						
48		0.0										
49		0.0										
50		0.0			Brown, fine to medium SAND, some coarse sand, no odor, wet [SP]							
51		0.0										
52	44/60	0.0										
53		0.0										
54		0.0										
55		0.0			Brown to red brown fine to medium, some gravel, no odor, wet [SP]							
56		0.0										
57	48/60	0.0										
58		0.0										
59		0.0										
60		0.0			Brown to red brown, medium to coarse SAND, some cobbles, no odor, wet [SP]							
61		0.0										
62	48/60	0.0										
63		0.0										
04		0.0										
65		0.0			Brown medium to coarse SAND, some gravel, no odor, wet [SP]							
66 67		0.0										
68	33/60	0.0										
69		0.0										
		0.0										
70 — OTES:					FILE NO.							
0.					e Size is determined by direct observation within the limitations of sampler size.	SB-1						

70 —	Recovery (in/tot)		I		_	SB-1		
		PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks		
/1		0.0			Brown to red brown fine SAND, some medium sand gravel, no odor, wet [SP]			
72	60/60	0.0			Red to red brown fine to medium SAND, some coarse sand and gravel, no odor, wet [SP]			
73 74		0.0						
- 75 - 76		0.0			Brown to light brown, fine to medium SAND, some silt and gravel, no odor, wet [SP]			
77 78	44/60	0.0						
79		0.0						
80		0.0			Red brown to brown, fine to medium SAND, some gravel and cobbles, no odor, wet [SP]			
82 83	60/60	0.0						
84		0.0						
86		0.0			Brown to grey brown, fine SAND, some medium sand and gravel, no odor, wet [SP] Brown to red brown, fine to medium SAND, some gravel and cobbles, no odor, wet [SP]			
88	60/60	0.0						
89 - 90 -		0.0			Brown to dark brown, medium to coarse SAND, some gravel and cobbles, no odor, wet [SP]			
91 92		0.0			Brown to dark brown, fine SAND, some medium sand, silt, gravel and cobbles, no odor, wet [SP]			
93 94	60/60	0.0						
95 —		0.0			Brown to dark brown, fine to medium SAND, some coarse sand and cobbles, no odor, wet [SP]			
97 98	60/60	0.0						
99		0.0						
100					END OF BORING AT 100 FT			
-								
-								
· _								
-								
- 4								
IOTES:					FILE NO. 206384 BORING NO.	SB-1		

SOIL BORING LOG

BORING NO.

SR	-2
ZЦ	-4

											Pag	ge 1 of 1
ROJECT		Remedial In	vestigation - 55	58 Sackett Street						PROJECT #	0206384	
OCATION			Street, Brookly	yn, NY						PROJECT MGR.	M. Conlon	
LIENT		Sackett Heig	ghts LLC							FIELD REP.	A. Vaculik, 2	Z.Simmel
ONTRAC	TOR	Coastal Env	ironmental Sol	utions						DATE STARTED	6/21/2023	
RILLER		Pat Slavin								DATE FINISHED	6/21/2023	
levation		ft.	Datum		Boring Loca	ation	See Plan					
em		Casing		Sampler	Rig Make & I	Model	Eijkelka	amp CR	S XL 140 Duo	Hammer Type D	rilling Mud	Casing Advance
уре		Steel		Steel	Truck	Щ	Tripod		Cat-Head	Safety	Bentonite	Type Method Depth
nside Diam		6"		3"	ATV		Geoprobe	V	Winch	Doughnut	Polymer	Sonic
lammer W		NA		NA	✓ Track		Air Track		Roller Bit	Automatic	None	
lammer Fa	ili (in.)	NA		NA	Skid	4	Other		Cutting Head	Drilling Notes:	1	
Pepth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Color	r, primary				escription descriptions, odor, moisture [SYM	MBOL])	Remarks
0									8" Concrete			
1		0.0	0-0.5	SB-2_0-0.5		Brov	wn, silty SAND, larg	e brick, r	ock, concrete and metal	fragments, no odor, dry [FILL]		
' h		0.0										
2	36/60	0.0										
		0.0										
3												
		0.0										
4		0.0										
_		0.0										
- 5 -		0.0										
6			5-7	SB-2_5-7								
_		0.0			Brown to	o dark bro	own, fine to medium	SAND, s	some silt, brick fragment	ts, broken wood, gravel, no odor,	dry [FILL]	
7	48/60	0.0										
8	→ 0/UU	0.0										
Ů		0.0										
9												
		0.0										
10		0.0										
11		0.0										
		0.0										
12												
	49/60	0.0	12-14	SB-2_12-14			Brown to dark b	rown fin	e to medium silty SAND), no odor, moist [SM]		Moist at 9'
13		0.0										
14		0.0										
'		0.0										
15												Wet at 15'
		1.8				15	'-17' Dark brown to l	black PE	AT, organic matter, sligh	nt organic-like odor, wet [PT]		
16												
17		1.2										
''	60/60	0.9										
18												
		1.8					Brown fine to	medium	SAND, trace silt and cla	y, no odor, wet [SP]		
19		0.2										
ŀ		0.2										
20								END	OF BORING AT 20 F	FT		
ļ.												
ŀ												
ŀ												
- ⊣												
-												
ŀ												
ŀ												
ļ												
ŀ												
ŀ												
_												
·		Water	Level Data	and in fact to			Sai	mple ID			Summary	
		Elapsed	De	epth in feet to:			O Or	oen End	Rod	Overburden (Linear ft.)		10
Date	Time	Time (hr.)		Water	J			in Wall		Rock Cored (Linear ft.)		-
							U Ur	ndisturbe	ed Sample	Number of Samples		3
									n Sample			
							G Ge	eoprobe		BORING NO.		SB-2
		<u> </u>	*N/	OTE: Maximum Par	ticle Size is d	determi	ned by direct obs	ervatio	n within the limitation	ns of sampler size		
Form	n #3000	NO								racticed by Haley & Aldrich,	Inc.	

SOIL BORING LOG

BORING NO.

SB-3

					ige	1 of	f 3											
ROJECT Remedial Investigation - 558 Sackett Street										PROJECT # 0206384								
OCATION	I		Street, Brookly	yn, NY					JECT MGR.		M. Conlon							
LIENT	TOD	Sackett Heig			FIELD REP. A. Vaculik Z													
ONTRAC	IOR		ironmental Sol	utions, Inc.	DATE STARTED 6/21/2023 DATE FINISHED 6/21/2023													
		Pat Slavin								DAI	E FINISHED		6/21/2023					
levation			Datum		Boring Loc		See Plan	komn C	DC VI. 140 Due	Т п.	T		illin n. Marral	T 6.	A -I			
em ype		Casing Steel		Sampler F	Truck	k Model	Tripod	kamp C	RS XL 140 Duo Cat-Head	Ha	Safety	Dr	illing Mud Bentonite		sing Ad	d Depth		
side Diam	eter (in.)	6"		3"	ATV		Geoprobe	V	Winch		Doughnut		Polymer	ТУР				
ammer Weight (lb.) NA NA					Track		Air Track		Roller Bit		Automatic	4	None		Sonic	٤		
ammer Fa	ll (in.)	NA		NA	Skid	J	Other	Ш	Cutting Head	Drilli	ng Notes:							
epth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Cole	or, primai			ual Identification & D lary component, optional			ure [SYM	1BOL])		Remar	ks		
0		0.0				- n			8" Concrete									
1		0.0	0-0.5	SB-1_0-0.5		Brown	i to dark brown, me	dium SA	ND, crushed concrete, bri	ick fragm	ents, no odor, d	ry [FILL]						
		0.0	0 0.5	SB 1_0 0.5														
2	20/60		1-2	SB-1_1-2														
3		0.0																
3		0.0												-				
4																		
		0.0																
5 -		0.0																
6		0.0			Dark brown, fine to medium SAND, crushed concrete, brick fragments, slight petroleum like odor, moist [FILL]											t 5'		
		0.0	5-7	SB-1_5-7														
7				Dup02-20230625														
	28/60	0.0				Brown	to light brown, fine	to mediu	m SAND, trace coarse sa	and and b	rick, no odor, m	oist [FILL	.]					
8		0.0																
9																		
		0.0																
10		1.2	0.11	CD 1 0 11) t- d b		- t- E CAND t	1		rem						
11		1.2	9-11	SB-1_9-11			srown to dark brow	n, meaiun	n to fine SAND, trace coa	arse sand.	, no odor, moist	[SP]						
		1.1					Black to dark brow	n peat and	l organic matter, organic	like odor,	, slightly moist [PT]						
12	46/60																	
40		0.8																
13		0.4	12-14	SB-2_12-14														
14		0.4	12 14	SB 2_12 14														
		0.0																
15		0.0							1 C CAND	1	(CD)				Wet at 1	1.51		
16		0.0			Brown to grey brown, fine SAND, no odor, wet [SP]											15'		
		0.0																
17	33/60																	
10		0.0																
18		0.0																
19																		
		0.0																
20		0.0			Brown to dark brown, fine to medium SAND, some gravel, no odor, wet [SP]													
21		0.0			Divini to dance oroning line to incommin or new, some graves, no otion, wet [31]													
		0.0																
22																		
23	50/60	0.0				Brown to red brown fine to medium SAND, no odor, wet [SP]												
	20/00	0.0					DIOWILL			, odoi,								
24																		
-		0.0												1				
25		0.0					Brown	to grav h	rown medium SAND, no	odor. we	et [SP]							
26								ى ر <u>.</u> . ي		. , . ,	,							
[40.00	0.1					D1 1 1											
27	49/60	0.0					Black to dark b	rown peat	and organic matter, orga	ınıc like o	odor, moist [PT]							
28		0.0					Brown	ı to gray b	rown medium SAND, no	odor, we	et [SP]							
		0.0																
29		0.0																
-		0.0																
30 —		0.0																
		Water	Level Data				(Sample I	D				Summary					
		Elapsed	De	epth in feet to:			^	Open En			Warhurdon /!:	near # \		10)			
Date	Time	Time (hr.)		Water				∪pen En Thin Wal		Overburden (Linear ft.) Rock Cored (Linear ft.)			-					
					U Undisturbed Sample Number of Samples							6		_				
-					S Split Spoon Sample													
							G	Geoprob	е	le le	BORING NO.			SB-3				
	1	i .	*N(OTE: Maximum Parti	cle Size is	determ	ined by direct o	bservati	on within the limitation	ons of sa	ampler size.							
Form	n#3000	NC							ual identification as p		<u> </u>	Aldrich,	Inc.					

ΛL	DRICH				SB-3		
epth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks	
30		0.0			Red brown to brown fine SAND, some medium, no odor, wet [SP]		
31		0.0					
32	60/60						
33		0.0			Red brown to brown, fine to medium SAND, no odor, wet [SP]		
34		0.0					
35		0.0					
36		0.0			Red brown to brown, medium SAND, no odor, wet [SP]		
	60/60	0.0					
37		0.0					
38		0.0					
39		0.0					
40		0.0			Brown to red brown, fine to medium SAND, no odor, wet [SP]		
41		0.0					
42	60/60	0.0					
43	00/00						
44		0.0					
45		0.0					
46		0.0			Brown to light brown fine to medium SAND, some coarse sand and gravel, no odor, wet [SP]		
47		0.0					
48	50/60	0.0					
	30/00	0.0					
49		0.0					
- 50 -		0.0			Brown to light brown, fine SAND, some silt and gravel, no odor, wet [SP]		
51		0.0					
52	4060	0.0					
53		0.0					
54							
55		0.0					
56		0.0			Brown to light brown medium sand, some coarse sand, no odor, wet [SP]		
57	40/60	0.0					
58		0.0					
59		0.0					
		0.0					
60		0.0			Decum to doub bearing modium CAND		
61		0.0			Brown to dark brown, medium SAND, some coarse sand, gravel and cobbles, no odor, wet [SP]		
62	32/60	0.0					
63		0.0					
64		0.0					
65		0.0					
66		0.0			65'-69.5' Brown to dark brown, medium to coarse SAND, some gravel and cobbles, no odor, wet [SP]		
67	0						
68	38/60	0.0					
69		0.0					
		0.0			Brown to gray brown fine SAND, some medium sand, no odor, wet [SP]		
70							

HAL.	DRICH				Soil Boring Log									
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks								
7 0 -		0.0			Brown to dark brown medium to coarse SAND, some gravel, no odor, wet [SP]									
	60/60	0.0												
72	60/60	0.0												
73		0.0			Brown to light brown fine SAND, some medium sand, trace gravel, no odor, wet [SP]									
74		0.0												
- 75 -		0.0			Brown to light brown fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]									
76		0.0												
77	48/60	0.0			Brown to light brown, fine silty SAND, some gravel and cobbles, no odor, wet [SM]									
78		0.0												
79		0.0												
80 -		0.0			Brown to light brown fine silty SAND, some cobbles, no odor, wet [SM]									
81		0.0												
82	50/50	0.0												
83	60/60	0.0												
84		0.0												
85 -		0.0			Light brown to grayish brown fine silty SAND, compact, no odor, slightly moist [SM]									
86		0.0												
87	55/60	0.0			Gray brown medium SAND, some cobbles, no odor, slightly moist [SP]									
88 89	33/00	0.0												
		0.0												
90		0.0			Brown to light brown fine to medium SAND, some cobbles, no odor, moist [SP]									
92		0.0												
93	50/60	0.0												
94	30/00	0.0												
		0.0												
95 — 96		0.0			Brown fine to medium SAND, some gravel and cobbles, no odor, wet [SP]									
97	54/60	0.0												
98		0.0												
99		0.0												
100		0.0												
100					END OFBORING AT 100 FT									
. 」														
OTES:					FILE NO. 206384 BORING NO.	SB-3								
			*NO	TE: Maximum Particle	Size is determined by direct observation within the limitations of sampler size.									

SOIL BORING LOG

BORING NO.

SB-4

ROJECT				58 Sackett Street				0206384				
OCATION	1		Street, Brookly	yn, NY						PROJECT MGR.	M. Conlon	7.0: 1
CONTRACTOR Sackett Heights LLC CONTRACTOR Coastal Environmental Solutions										FIELD REP. DATE STARTED	A. Vaculik, 2 6/21/2023	Z.Simmel
RILLER	IOR		ronmental Soli	utions								
		Pat Slavin								DATE FINISHED	6/21/2023	
levation			Datum		Boring Locat		See Plan	omn CD	C VI 140 Due	Hamman Toma	Daillian Marel	Cooling Advance
ype		Casing Steel		Sampler Steel	Rig Make & I	wodei	Tripod	amp CR	S XL 140 Duo Cat-Head	Hammer Type Safety	Drilling Mud Bentonite	Casing Advance Type Method Depth
nside Diam	eter (in.)	6"		3"	ATV	П	Geoprobe		Winch	Doughnut	Polymer	
lammer W		NA		NA	✓ Track		Air Track		Roller Bit	Automatic	✓ None	Sonic
lammer Fa	ll (in.)	NA		NA	Skid	V	Other		Cutting Head	Drilling Notes:		
epth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Color,	, primary			al Identification & De ry component, optional d	escription escriptions, odor, moistur	Remarks	
. 0									8" Concrete			
ļ.		0	0-0.5	SB-4_0-0.5	Brown to o	dark brov	wn, fine to medium	sand, som	ne silt, some gravel, large	brick fragments, wood, n	o odor, dry [FILL]	
1		0										
2	46/60	0										
į		0										
3												
4		0										
4		0										
. 5												
		1.7										
6		5.2	5-7	SB-4_5-7		Brow	n to light brown fin	to medi	um silty SAND, trace fin	e gravel, no odor, moist [I	TLL]	
7		5.3	J-1	SB-4_5-7 MS SB-4_5-7 MSD								
·	36/60	0										
8												Moist at 9'
9		212.7					Dark gray to black	fine silty	SAND, petroleum-like o	dor, stained, moist [SM]		
3		615.4	8-10	SB-4_8-10		Brow	vn to light gray, fine	silty SAl	ND, petroleum-like odor,	moderately stained, wet [SM]	Wet at 10'
- 10				_						, , ,		
		149.8						~				
11		377					Brown,	fine silty	SAND, trace clay, no od	or, wet [SM]		
12		311										
		5.1										
13	48/60		12-14	SB-4_12-14								
14		4.8										
		5.3										
15												
16		0				L	ight brown to orang	e brown	fine to medium SAND, s	ome silt, no odor, wet [SF]	
10		0										
17												
40	12/50	0										
18	42/60	0										
19												
		0										
20								END	OF BORING AT 20 F	Т		
								E. L	OF BORENG NI 201			
-												
ŀ												
ŀ												
- →												
ŀ												
ŀ												
ŀ												
_												
		Water	Level Data	anth in fact to:			Sa	mple ID			Summary	
D.:		Elapsed	DE	epth in feet to:			o 0	oen End	Rod	Overburden (Line	ear ft.)	20
Date	Time	Time (hr.)		Water			T Th	nin Wall	Tube	Rock Cored (Line	ear ft.)	-
									ed Sample n Sample	Number of Samp	les	4
								eoprobe		BORING NO.		SD 4
												SB-4
									n within the limitation			
Form	n #3000	NC	DE: Soil desc	riptions based on a	modified Bu	ırmister	method of visua	II-manu	al identification as pr	acticed by Haley & Al	drich, Inc.	

SOIL BORING LOG

BORING NO.

SB-5

																Pag	e 1 of 1	_	
PROJECT		Remedial In	vestigation - 55	58 Sackett Street								JECT#			020638	<i>i</i> 4			
OCATIO	N	558 Sackett	Street, Brookly	yn, NY								JECT MG	R.		M. Con	ılon			
CLIENT		Sackett Heig								FIELD REP. A. Vaculik,									
CONTRAC	TOR		ironmental Sol	utions	DATE STARTED 6/21/2023														
ORILLER																	\dashv		
NILLEK		Pat Slavin									DAI	∟ гіміЭН	בט		6/21/20	143			
Elevation		ft.	Datum		Boring I													لب	
tem		Casing		Sampler	Rig Mak				np CRS	S XL 140 Duo	Ha	ammer Ty	ре	Dri	ling Mu	d	Casing Advance		
Гуре		Steel		Steel	Truc	:k	Tripod	l		Cat-Head		Safety			Benton	ite	Type Method Depth	h	
nside Dian	neter (in.)	6"		3"	ATV			obe	7	Winch		Doughr	nut		Polyme	ŧΓ	Sonic		
lammer W		NA		NA	✓ Trac	:k		ack	Ш	Roller Bit		Automa	atic	✓	None		Sonic		
lammer Fa	ıll (in.)	NA		NA	Skic	ı İ,	Other			Cutting Head	Drilli	ing Notes:							
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])									Remarks				
- 0 -		0.0	0.05	CD 5 0 0 5			n	The CAN	ID 1	8" Concrete	1 1	1 (F)(1				\equiv			
1		0.0	0-0.5	SB-5_0-0.5			Brow	n, siity SAN	D, large	brick fragments, metal	u, no oac	or, ary [FILI	-]					-	
'		0.0														_		-	
2		0.0																_	
	32/60	0.0																	
3																			
		0.0							(Concrete fragments									
4																			
		0.0																_	
- 5 -																		_	
		0.0		ep 5 5 7	-		1. h °	t' ~	AND			_1	L		(1777 * *	-		_	
6		0.0	5-7	SB-5_5-7	Bro	wn to dar	k brown, fine t	o medium S	AND, so	ome silt, metal, brick fra	agment,	piastic, rubl	per, no	odor, dr	y [FILL]			-	
7	16/60	0.0																-	
′	10/00	0.0																-	
8		0.0																\neg	
		0.0																	
9																			
		0.0															Moist at 9.5'		
10																		_[
		0.0					Brown to	orange bro	wn, fine	to medium SAND, son	me silt, r	no odor, wet	[SP]				Wet at 10'	_	
11		0.0																-	
12		0.0																-	
12	51/60	0.0	12-14	SB-5_12-14														_	
13																		-	
		0.0																	
14																			
		0.0																	
15																		_	
		0.0						Brown to o	orange b	rown, silty SAND, no o	odor, we	t [SM]						_	
16		0.0																_	
17		0.0																-	
	30/60	0.0																\neg	
18																			
		0.0																	
19																			
		0.0																_	
20 —				<u> </u>					END.	OF BORING AT 20 F	СТ					\dashv		\dashv	
									END (OF DUKING AT 20 F	r 1							-	
																		-	
																		\neg	
																		_	
																		_	
																-		-	
																		-	
																		-	
																		\neg	
																		_	
																		4	
																		\dashv	
																-+		-	
		Water	Level Data	I.				Sam	ple ID		T				Sumn	nary		\dashv	
				epth in feet to:					-									\dashv	
Date	Time	Elapsed			O Open End Rod Overburden (Linear T Thin Wall Tube Rock Cored (Linear										20				
Date		Time (hr.)		Water										-					
										d Sample	ľ	Number of	Sampl	es			3		
	_									Sample	<u> </u>	DODING P				—		4	
								G Geo	probe		ľ	BORING N	J.			;	SB-5		
		ı	*N/	OTE: Maximum Par	ticle Size	is dete	rmined by di	rect obser	rvation	within the limitation	ns of e	ampler siz	e.					-	
				rintions based on a														_	

ALDRICH

SOIL BORING LOG

BORING NO.

SB-6

																ige	1 o	of 1
ROJECT		Remedial In	vestigation - 55	58 Sackett Street	reet PROJECT # 020638													
OCATION	N	558 Sackett	Street, Brookly	yn, NY	PROJECT MGR. M. Conlor FIELD REP. A. Vaculit													
LIENT		Sackett Heig	hts LLC								FIEL	LD REP.			A. Vaculik	, Z.Simi	nel	
ONTRAC	TOR		ronmental Sol	utions							DAT	E STARTE	ΕD		6/21/2023			
RILLER		Pat Slavin										E FINISHE			6/21/2023			
								0 DI										
levation			Datum			Location		See Plan	kome OD	C VI 440 D.:-				<u> </u>	Line Mond	1 ~	!	-l
em		Casing Steel		Sampler Steel	True	ke & Mo	aeı	Tripod		S XL 140 Duo Cat-Head		ammer Typ	е	Drii	ling Mud		asing Ad	
ype nside Diam	notor (in)	6"	+	3"	☐ AT\		1	Geoprobe		Winch		Safety Doughn		Н	Bentonite Polymer	1 1 1	Je Metric	od Depth
lammer W		NA		NA	☐ Trac		j	Air Track	H	Roller Bit	45	Automat			None		Soni	ic
lammer Fa		NA NA	-	NA	Skid		7	Other	ΙĦ	Cutting Head	Drill	ing Notes:	lic		None			
	()		ļ.				_	011101		outing House								
epth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	((Color, pri	imary c			al Identification & Dry component, optional			oisture	[SYME	BOL])		Remai	rks
0 —		0.0	0-0.5	SB-6_0-0.5	Brov	vn to red l	brown,	fine to medium S	SAND, crus	8" Concrete shed concrete, brick an	ıd metal f	fragments, gra	ivel, no	odor, o	try [FILL]			
1		0.0																
2	33/60	0.0																
-	33/00	0.0																
3																		
		0.0																
4										<u> </u>								
ļ		0.0																
5 -		0.0																
6		0.0	5-7	SB-6_5-7		p.	rown to	red brown fine	to medium	SAND, crushed concr	ete fraan	nents no odor	r dev f	FILL				
,		0.0	J-1	5B-0_5-/		ы	.owii to		moutuiil	, 111D, CLUSHEU COHET	ow magn	, no ouoi	., ur y [.]				
7		0.0																
	38/60	0.0																
8																		
		0.0																
9		0.0														1		
4.5		0.0			G	ray to dar	rk grav	fine to medium	SAND. trac	ce angular gravel, netro	oleum-lik	e odor, slight	ly stain	ed. moi	ist [SP]		Moist a	t 10'
10		0.0	10-12	SB-6_10-12	Gray to dark gray, fine to medium SAND, trace angular gravel, petroleum-like odor, slightly stained, moist [SP]													
11																		
_ [0.0																
12	44/60	0.0																
13	44/60	0.0	12-14	SB-6_12-14			Rad	brown to brown	i fine to mo	edium SAND, slight pe	etroleum	like odor moi	ist [CD	1				
13		0.0	12-14	3B-0_12-14			Keu	DIOWII IO DIOWI	i, iiie to iiie	culum SAND, slight pe	ciroleum	like odor, mor	ist [SF	J				
14		0.0																
		0.0																
15																		
		0.0					Re	d brown to brow	n silty fine	SAND, some medium	sand, so	me gravel, we	t [SM]				Wet at	15'
16		0.0						16'	16.5 Lance	e of brown peat and or	raonio m	ottor						
17		0.0						10-	-10.5 Lens	e or brown pear and or	iganic in	auci						
		0.0					Re	d brown to brow	n silty fine	SAND, some medium	sand, so	me gravel, we	t [SM]					
18	24/60																	
		0.0																
19																		
		0.0																
20									END	OF BORING AT 15	FT					+		
									2.10									
[
}																		
ļ																		
7																		
,																		
}																		
ŀ																		
ŀ																		
		Water	Level Data					S	ample ID						Summary	'		
			De	epth in feet to:														
Date	Time	Elapsed		18/-/					Open End			Overburden				2		
		Time (hr.)		Water					Thin Wall			Rock Cored						
									Jnaisturbe Split Spooi	ed Sample n Sample		Number of S	ample	75	-	4	+	
					G Geographe BORING NO							en a						
														SB-6				
				OTE: Maximum Part				-				•						
		NIC	TE. Call dage	rintions based on a	1:6:	d Durm				1 . 1		of the Hadana		and a land				

ALDRICH

SOIL BORING LOG

BORING NO.

SB-7

ROJECT				58 Sackett Street						PROJECT # PROJECT MGR.	0206384 M. Conlon					
OCATION	l		Street, Brookly	n, NY		' C' 1										
LIENT ONTRAC	TOR	Sackett Heig		Y						FIELD REP. DATE STARTED	A. Vaculik Z	Simmel				
RILLER	IUK	Pat Slavin	ironmental Sol	utions, inc.						DATE FINISHED	6/21/2023 6/21/2023					
							0			DATETINISHED	0/21/2023					
levation		ft. Casing	Datum	Sampler	Boring Loc Rig Make &		See Plan	amn C	RS XL 140 Duo	Hammer Type	Drilling Mud	Casing Advance				
em ype		Steel		Steel	Truck	x Wiodei	Tripod	┰└╴	Cat-Head	Safety	Bentonite	Type Method Depth				
side Diam	eter (in.)	6"		3"	☐ ATV		Geoprobe	V	Winch	Doughnut	Polymer					
ammer Wo	eight (lb.)	NA		NA	Track		Air Track		Roller Bit	☐ Automatic	None	Sonic				
ammer Fa	ll (in.)	NA		NA	Skid	√	Other		Cutting Head	Drilling Notes:	1					
epth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Col	or, primar			ual Identification & Do	escription descriptions, odor, moistu	re [SYMBOL])	Remarks				
0 -		0.0							8" Concrete							
1			0-0.5	SB-7_0-0.5												
	*****	0.0			Brown	to red br	own fine to medium	SAND,	crushed concrete, brick fr	agments, some gravel, no	odor, dry [FILL]					
2	32/60		1-2	SB-7_ 1-2												
3		0.0														
4		0.0														
_ }		0.0														
5 —						Brown t	o black, fine to med	ium SAN	ID, crushed concrete, bric	k fragments, no odor, moi	ist [FILL]	Moist at 5'				
6		0.0														
- I			5-7	SB-7_5-7												
7	24/60	0.0														
8																
_																
9		0.0														
40																
10		0.0	10-12	SB-7_10-12		Bı	rown, fine SAND, so	ome silt,	medium sand, gravel and	cobbles, no odor, moist [S	5P]					
11																
12		0.0														
12	30/60	0.0														
13																
44		0.0	12-14	SB-7_12-14												
14																
15		0.0														
15							Brown, fine to coa	rse SAN	D, some silt, gravel and c	obbles, no odor, wet [SP]		Wet at 15'				
16		0.0														
17		0.0														
	43/60															
18		0.0														
19																
		0.0														
20																
21		0.0				Bro	own to tan brown, fir	ne to coa	rse SAND, some gravel a	nd cobbles, no odor, wet [SW]					
		0.0														
22																
22	35/60	0.0														
23																
24		0.0														
25		0.0					Brown to red brown	n. medin	m to coarse SAND, some	gravel, no odor, wet [SP]						
26		0.0						,	15 combe 57 n 15, some							
_ [
27	31/60	0.0														
28																
		0.0														
29																
		0.0														
30 —																
		Water	Level Data	male in fact to			Sa	mple II)		Summary					
_		Elapsed	De	epth in feet to:			o 0	pen En	d Rod	Overburden (Line	ear ft.)	10				
Date	Time	Time (hr.)		Water				hin Wal		Rock Cored (Line		-				
									ed Sample	Number of Samp		5				
									on Sample	BORING NO.						
					G Geoprobe BORING NO.							SB-7				
			*N0	OTE: Maximum Par	ticle Size is	determi	ined by direct ob	servatio	on within the limitatio	ns of sampler size.						
Eom	n#3000	NC	TE: Soil desc	riptions based on	modified E	Burmiste	er method of visu	ldrich, Inc.								

HAL	DRICH	1			Soil Boring Log	BORING NO. ${f SB-7}$
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
30 -		0.0			Brown to dark brown, medium to coarse SAND, some gravel and cobbles, no odor, wet [SP]	
32	40/60	0.0			Diona to dark of own, include to course D. 1.12, some gravet and coopies, no odor, wet [32]	
33		0.0				
34		0.0				
35		0.0				
36		0.0			Brown to light brown, fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP] Brown to dark brown medium SAND, some gravel and cobbles, no odor, wet [SP]	
37 38	38/60	0.0				
39		0.0				
40		0.0				
41		0.0			Brown to dark brown, medium to coarse SAND, trace gravel and cobbles, no odor, moist [SP]	-
42		0.0				
43 44	43/60	0.0				
45		0.0				
46		0.0			Brown to dark brown fine to medium SAND, some coarse sand and gravel, no odor, wet [SP]	
47		0.0			Brown, fine silty SAND, no odor, wet [SM]	
48	39/60	0.0				
49		0.0				
50 —		0.0			Brown to dark brown, medium to coarse SAND, some gravel and cobbles, no odor, wet [SP]	
52						
53	42/60	0.0				
54		0.0				
- 55 -		0.0			Brown to light brown, fine silty SAND, no odor, wet [SM]	
56 57		0.0				
58	48/60	0.0				
59		0.0				
60		0.0			Brown, fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]	
61		0.0			and	
62	20/50	0.0				
63 64	38/60	0.0				
65		0.0				
66		0.0			Brown to light brown, fine to coarse SAND, some gravel and cobbles, no odor, wet [SW]	
67	31/60	0.0				
68	22.00	0.0				
69		0.0				
70 –		0.0			FILE NO.	
			*NO	TE: Maximum Particle	e Size is determined by direct observation within the limitations of sampler size.	SB-7

HAL	DRICH				Soil Boring Log	SB-7
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
7 0 -		0.0			Brown to light brown, medium SAND, some fine and coarse sand and gravel, no odor, wet [SP]	
72	60/60	0.0				
73		0.0				
74		0.0				
		0.0				
- 75 - 76		0.0			Brown to light brown, fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]	
77		0.0				
78	48/60	0.0			Dark brown to light brown, fine silty SAND, some gravel and cobbles, no odor, wet [SM]	
79		0.0				
		0.0				
80		0.0			Brown to light brown, fine silty SAND, some gravel and cobbles, no odor, wet [SM]	
82		0.0				
83	60/60	0.0				
84		0.0				
0.5		0.0				
85 -		0.0			Brown to light brown, fine SAND, some medium sand, gravel and cobbles, no odor, wet [SP]	
87		0.0				
88	55/60	0.0				
89		0.0				
90		0.0				
91		0.0			Brown to light brown, fine to medium SAND, some fine grave and cobbles, no odor, wet [SP]	
92		0.0				
93	50/60	0.0				
94		0.0				
95		0.0				
96		0.0			Light brown fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]	
97	54/60	0.0				
98		0.0				
99		0.0				
100		0.0			DUD OF DODDYG I THE ST	
					END OF BORING AT 100 FT	
-						
-						
-						
-						
-						
- 4						
IOTES:					FILE NO. 206384 BORING NO.	SB-7
					Size is determined by direct observation within the limitations of sampler size. Sdified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc	

Form #3000

BORING NO.

		SOIL BORING LOG Page															
ROJECT		D 1:11	5	50.0 10.						DD.	OJECT#		0206384				
OCATIO			Street, Brookl	58 Sackett Street						-	OJECT # OJECT MGF	? .	M. Conlo				
LIENT		Sackett Heig		yn, 1 v 1						-	LD REP.			ik, Z.Simmel			
ONTRAC	CTOR		ironmental Sol	utions, Inc.						-	TE STARTE	D	6/21/202				
RILLER		Pat Slavin								DA	TE FINISHE	D	6/21/202	3			
levation		ft.	Datum		Boring	ocatio	n See Pla	ın									
em		Casing		Sampler	Rig Mal			ijkelkam	CRS XL 140 Duo		lammer Type	e D	rilling Mud	Casing Advance			
ype		Steel		Steel	☐ Truc		Tripod	 	Cat-Head	ᇤ	Safety		Bentonite	Type Method Depth			
nside Diar Iammer W	neter (In.) /eight (Ib.)	6" NA		3" NA	Trac		Geoprob Air Track		VVIIICII		Doughnu Automati		Polymer None	Sonic			
lammer F		NA		NA	Skic		Other	` [Cutting Head	Drill	ling Notes:		110.10				
Pepth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID			imary component	isture [SYI	MBOL])	Remarks							
0 -									8" Concrete								
1		0.0	0-0.5	SB-8_0-0.5	,	Black to	brown fine to med	lium S A NI	, some gravel, crushed cor	ncrata bri	ck fragments r	o odor dri	, TETT I 1				
•		0.0	0 0.5	55 0_0 0.5		Juck to	orown, mic to mee		, some graves, erasnea cor	nerete, orr	en magmento, i	0001, 01)	(LILL)				
2	48/60		1-2	SB-8_ 1-2													
3		0.0															
Ü		0.0															
4		0.0															
_		0.0															
• 5 -						Bro	wn to light brown,	fine to me	lium SAND, some coarse s	sand and §	gravel, no odor.	moist [FII	L]	Moist at 5'			
6		0.0		CD 0 5 7													
7			5-7	SB-8_5-7													
	35/60	0.0															
8																	
9		0.0															
10 -		0.0	9-11	SB-8_9-11			Brown to light bro	own, fine to	medium SAND, some gra	avel and co	obbles, no odor	wet [SP]		Wet at 10'			
11		0.0	7.1.	55 0_) 11			Diown to light ore	, , , , , , , , , , , , , , , , , , ,	mediam 5/11 (D, some gra	iver una ec	oboles, no odor	wer [DI]		Wet at 10			
12	50/60	0.0															
13																	
4.4		0.0	12-14	SB-8_12-14													
14				SB-8_12-14 MS SB-8_12-14 MSD													
- 15 -		0.0		_													
16						Br	own to light brown	n, fine SAN	D, some medium sand, tra	ace silt and	l cobbles, no oc	or, wet [SI	P]				
10		0.0															
17																	
18	49/60	0.0															
.0		0.0															
19		0.0															
20		0.0															
20 —							Brown to	o light brow	n, medium SAND, some	gravel, no	odor, wet [SP]						
21		0.0															
22																	
23	45/60	0.0															
20																	
24		0.0															
05																	
25 —		0.0					Brow	n medium	SAND, some medium gra	ivel, no od	or, wet [SP]						
26																	
27	51/60	0.0															
00																	
28		0.0															
29																	
		0.0															
30 -																	
		Water	Level Data	epth in feet to:				Samp	e ID			-	Summa	iry			
Date	Time	Elapsed		•			c		End Rod		Overburden (100			
Date	11116	Time (hr.)		Water	T Thin Wall Tube Rock Cored (Linear ft.)								7				
					U Undisturbed Sample Number of Samples S Split Spoon Sample												
							G				BORING NO			SB-8			
				OTE: Maximum Par													

Depth (ft.) Recovery (in/tot) PID (ppm) Sample Depth (ft.)					BORING NO. ${f SB-8}$	
Depth (ft.)		PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
30		0.0			Brown to red brown, fine to coarse SAND, some gravel and cobbles, no odor, wet [SW]	
31	42/60	0.0				
33		0.0				
34		0.0				
35 - 36		0.0			Brown to light brown, fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]	-
37	51/60	0.0			Light brown to grayish brown, fine to coarse SAND, some gravel, no odor, wet [SW]	
38						
39		0.0				
41		0.0			Light brown to dark brown, medium to coarse SAND, some fine sand, trace gravel, no odor, wet [SP]	
42	48/60	0.0				
43 44		0.0				
4 5 -		0.0			Brown medium to coarse SAND, some gravel and cobbles, no odor, wet [SP]	
46	40/60	0.0			gg	
47 48	49/60	0.0				
49		0.0				
- 50 - 51		0.0			Brown to light brown, medium SAND, some cobbles, no odor, wet [SP]	
52						
53	6060	0.0				
54		0.0				
- 55 - 56		0.0			Brown to light brown, medium to coarse SAND, trace gravel and cobbles, no odor, wet [SP]	
57	60/60	0.0				
58 59		0.0				
– 60 –		0.0			Brown to light brown, fine to medium SAND, no odor, wet [SP]	
61		0.0			Diown to ngar glown, time to incutain Dalay, iio odol, wet [37]	
62	50/60	0.0				
64		0.0				
- 65 -		0.0			Brown to red brown fine to medium SAND, some silt, no odor, wet [SP]	
66 67	50/60	0.0				
68		0.0				
69		0.0				
70 NOTES:		0.0			FILE NO. 206384 BORING NO.	SB-8
		•			le Size is determined by direct observation within the limitations of sampler size. nodified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.	

HAL	DRICH	1	<u>.</u>		Soil Boring Log	SB-8
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
70 -		0.0			Brown to dark brown fine to medium SAND, some cobbles, no odor, wet [SP]	
71		0.0				
72	47/60	0.0				
73		0.0				
74		0.0				
- 75 -		0.0			Brown to light brown fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]	
76		0.0				
77	39/60	0.0				
78		0.0				
79		0.0				
80		0.0			Brown to gray brown fine silty SAND, crushed concrete and cobbles, no odor, moist [SM]	
81		0.0				
82		0.0				
83	42/60	0.0				-
84		0.0				-
85		0.0			Brown to red brown, fine silty SAND, some crushed concrete and cobbles, no odor, moist [SM]	
86		0.0				
87	10/60	0.0				
88	49/60	0.0				
89		0.0				
90 -		0.0			Brown to dark brown fine to medium SAND, some silt, no odor, wet, [SP]	
92		0.0				
93	53/60	0.0				
94	33/00	0.0				
		0.0				
95 — 96		0.0			Light brown to dark brown, fine to medium SAND, some silt, gravel and cobbles, no odor, wet [SP]	
97	60/60	0.0				
98		0.0				
99		0.0				
		0.0				
100					END OF BORING AT 100 FT	
1						
NOTES:					FILE NO. 206384 BORING NO.	SB-8
			*NO	TE: Maximum Particle	e Size is determined by direct observation within the limitations of sampler size.	

APPENDIX B1
Supplemental Soil Boring Logs

HAL	EY
AL	DRICH

BORING NO.

SB-2A

										Pag	<u>je 1 of 1</u>
PROJECT				vestigation - 558 Sac	kett Street				PROJECT#	0206384	
LOCATIO	N		Street, Brookly	yn, NY					PROJECT MGR.	M. Conlon	
CLIENT		Sackett Heig	ghts LLC						FIELD REP.	N. Mooney	
CONTRAC	CTOR	Lakewood F	Environmental S	Services Corp.					DATE STARTED	3/26/2024	
DRILLER		Adam Hutch	ninson						DATE FINISHED	3/26/2024	
Elevation		ft.	Datum		Boring Location	See Plan					
tem		Casing			Rig Make & Mode		Geopro	be 5410	Hammer Type	Drilling Mud	Casing Advance
Гуре		Steel		-	☐ Truck ☐	Tripod		Cat-Head	□ Safety	□ Bentonite	Type Method Depth
nside Diar	neter (in.)	2		2"	□ ATV ☑	Geoprobe		Winch	□ Doughnut	□ Polymer	Direct Duch
lammer W	eight (lb.)	N/A		N/A	☑ Track □	Air Track		Roller Bit	□ Automatic	✓ None	Direct Push
lammer Fa	all (in.)	N/A		N/A	□ Skid □	Other		Cutting Head	Drilling Notes:		
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Color, prin			ual Identification & Des		e [SYMBOL])	Remarks
- 0 -								8" Concrete			
_		0	0-8	SB-2A_0-0.5'	Brown t	o dark brown mediu	ım SAND w	vith trace gravel, wood, sla	g, brick, glass, no odor,	dry [FILL]	
1				SB-2A_1-3'							
0	22/10	0									
2	22/48	0									
3		U		SB-2A_3-5'							
~		0		-							
- 4 -											
		0									
_				an							
5				SB-2A_5-7'							
6	20/48	0									
U	20/48	0									
7				SB-2A_7-9'							
		0		_							
- 8 -			8-12			Grayish brow	n SILT with	h very fine sand, trace clay	, no odor, wet [ML]		
		0									
9				SB-2A_9-11'							
9		0		SB-2A_9-11							
10	27/48	U									
		0									
11											
		0									
– 12 –			12-13	SB-2A_12-14'		Dark g	rayish brow	n SILT, petroleum-like od	or, wet [ML]		
		48.4									
13	21/24	58.3	13-14	DUP03_20240326		Dark brown to black	b DEAT with	h organic matter, slight org	ranic-like odor moist Π	DT1	DUP03_20240326
10	21/24	30.3	13 14	D0103_20240320		Dark blown to black	KTL211 WIL	ir organic matter, sirgint org	diffe fike odor, morst [1		collected from 12-14'
– 14 –		19.2									
							ENI	O OF BORING AT 14 FT			
15											
40											
16											
17											
18											
4.0											
19											
- 20 -											
21											
22											
23											
20											
24											
25											
26											
27											
											
28											
29											
- 30 -											
		Water	Level Data				Sample ID)		Summary	
			De	epth in feet to:						-	
Date	Time	Elapsed		100			Open End		Overburden (Line		
		Time (hr.)		Water			Thin Wall		Rock Cored (Line		
							Split Spoo	ed Sample on Sample	Number of Samp		
		 					Geoprobe		BORING NO.		
							-				
								n within the limitations			
		NIC	TE OUT					ial identification as pra	ACT OF THE PARTY OF A	1.1.2.1.1.1	



BORING NO.
SB-2A-S1

										PROJECT #	Pag	e 1 of 1					
PROJECT				vestigation - 558 Sack	cett Street	0206384											
LOCATION CLIENT	N	Sackett Heig	Street, Brookly	n, NY						PROJECT MGR. FIELD REP.	M. Conlon N. Mooney						
CONTRAC	CTOR		Environmental S	Services Corn						DATE STARTED	3/26/2024						
DRILLER		Adam Hutch		services corp.						DATE FINISHED	3/26/2024						
Elevation		ft.	Datum		Boring Loc	ation	See Plan										
Item		Casing			Rig Make &			Geopro	be 5410	Hammer Type	Drilling Mud	Casing Advance					
Туре		Steel	4	' Macrocore	☐ Truck		Tripod		Cat-Head	□ Safety	☐ Bentonite	Type Method Depth					
Inside Dian Hammer W		2 N/A		2" N/A	□ ATV ☑ Track	☑	Geoprobe Air Track		Winch Roller Bit	☐ Doughnut☐ Automatic	□ Polymer☑ None	Direct Push					
Hammer Fa		N/A		N/A	□ Skid		Other		Cutting Head	Drilling Notes:	1 110110						
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Co	olor, prima			ual Identification & Do	escription lescriptions, odor, moisture	Remarks						
_ 0 _				1					8" Concrete								
		0	0-2	SB-2A-S1_0-0.5'			Brown medium	to coarse	SAND with silt, brick, sl	ag, no odor, dry [FILL]							
1		0		SB-2A-S1_1-3'													
2	17/48		2-4		Red	ldish brow	n medium to coars	se SAND v	vith silt, some white sand	, brick, slag, wood, no odd	or, dry [FILL]						
3		0		SB-2A-S1_3-5'													
3		0		3B-2A-31_3-3													
_ 4 _			4-8			Reddis	sh brown to black	to white m		with silt, brick, slag, wood,	glass,						
5		0		SB-2A-S1_5-7'					no odor, dry [FILL]								
		0															
6	11/48	0															
7				SB-2A-S1_7-9'													
		0	8-10				n	own CII T	slight petroleum-like odo	r wet [MI]							
- 8 -		0	0-10				DIO	owii SiL1,	siigiit petroleum-like odo	i, wet [ML]							
9	12/24	0		SB-2A-S1_9-11'													
10		107.9	10-10.5				Brown mediu	ım to coars	e SAND, slight petroleu	m-like odor, wet [SP]							
11		303	10.5-11.5	SB-2A-S1_11-11.5'		G	ray to black fine t	o coarca cil	ty SAND with gravel pe	troleum-like odor, wet [SI	01						
11						U					·]						
– 12 –	44/48	88.8	11.5-13	SB-2A-S1_12-14'			Black PEA	T with org	anic matter, petroleum-li	ke odor, moist [PT]							
		112.4															
13			13-14				Medium brown	n PEAT wi	th organic matter, organi	c-like odor, moist [PT]							
		115.5															
— 14 —		15.2															
15								EN	D OF BORING AT 14.5	FT							
16																	
47																	
17																	
18																	
19																	
. •																	
_ 20 _																	
21																	
00																	
22																	
23																	
24																	
– 25 –																	
26																	
27																	
21																	
28																	
29																	
— 30 —																	
		Water	Level Data	1				Sample ID)		Summary						
		Elapsed	De	epth in feet to:			0	Open End	Rod	Overburden (Line	earft)						
Date	Time	Time (hr.)		Water			Т .	Thin Wall	Tube	Rock Cored (Line	ear ft.)						
									ed Sample	Number of Sampl	les						
					S Split Spoon Sample G Geoprobe BORING NO.												
				10TE 14 ' -	ethal : O	-1-4 *		•									
		N								imitations of sampler size. ion as practiced by Haley & Aldrich, Inc.							
•		Vi Vi	vvii ueb	ISSISSIS DASEU UII	vuilieu l												

HAL	EY
AL	DRICH

BORING NO.

SB-3A

PROJECT				vestigation - 558 Sacl	PROJECT MGR. M. Conlon											ge 1	of	1					
LOCATION CLIENT	N	558 Sackett Sackett Heig	Street, Brookly	rn, NY													•				A. Stewart		
CONTRAC	CTOR		Environmental S	Services Corp.									-			 ARTED)		3/26/2		1. Stewart	•	
DRILLER		Adam Hutch	ninson											DATE	FIN	ISHED)		3/26/2	2024			
Elevation			Datum		Boring I			See Pl															
Item Type		Casing Steel		Sampler Macrocore	Rig Mak		odel □	Tripod		Geopro	be 541 Cat-l		+	Han		r Type fety	+		lling M Bento			ng Adva lethod [
Inside Diar		2		2"	□ ATV	,	V	Geopro			Wind	h			Do	ughnut]	Polym			ect Pus	_
Hammer W Hammer Fa		N/A N/A		N/A N/A	☑ Trac □ Skice			Air Trad	ck		Rolle	er Bit ng Head	-	□ Drilling		tomatic	. 2]	None				
	()	14// 1		1,77		•		0 11101			Oditi	ing riodd			9								-
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional description																	emarks	
- 0 -		0	0-3.5	SB-3A_0-0.5'			Brow	vn to dark	brown m	nedium S		Concrete th some silt, b	orick, s	slag, no	odo	r, moist	[FILL]						
1				SB-3A_1-3'																			
2	21/48	0																					
2	21/40	0																					
3		0	3.5-6	SB-3A_3-5'			Brown	fine to coa	rse SAN	D with s	ilt and so	me clay, sligh	nt petro	oleum-l	like c	dor. mo	ist [FI]	LLI					
– 4 –													1			, ,							
		0																					
5		0		SB-3A_5-7'																			
6	33/48	6.8	6-7					Tan to br	own fine	SAND	with silt,	slight petrole	um-lik	e odor,	, moi	st [FILL	.]						
7		0	7-8	SB-3A_7-9'				brown to	o gray SI	ILT with	fine san	d, slight petro	leum-l	like odo	or, w	et [ML]							
		105.8	8-10		brown to gray SILT with fine sand, slight petroleum-like odor, wet [ML]										MT 1								
– 8 –			8-10		Yellowish gray-brown SILT with fine sand, some gravel, slight petroleum-like odor, wet [ML]																		
9		368.4		SB-3A_9-11'																			
10	24/48	85.4	10-11	DUP04_20240326 collected from 9-11'		Y	ellowisl	h gray-brov	wn SILT	with fin	e sand, s	ome gravel, sl	light p	etroleu	m-lik	e odor,	moist [ML]					
11		22.6	11-12	collected from 9-11					Grayish	brown c	coarse SA	ND with silt,	, grave	l, wet [[SP]								
		3.3																					
— 12 —										EN	D OF BO	ORING AT 12	2 FT										
13																							
14																							
— 15 —																							
16																							
17																							
18																							
19																							
_ 20 _																							
21																							
22																							
23																							
24																							
0.5																							
– 25 – 26																							
27																							
28																							
29																							
— 30 —																							
	1	Water	Level Data D	epth in feet to:					Sa	mple ID)			+					Sum	nmary			
Date	Time	Elapsed Time (hr.)		Water					T Th U Ur		Tube ed Sam			Ro	ock C	irden (L ored (L r of Sar	inear	ft.)	<u>-</u>				<u> </u>
					S Split Spoon Sample G Geoprobe BORING NO.																		
			**	IOTE: Maximum Pa	rticle Siz	e je da	termin	ed by dir	rect obs	ervatio	n withi	n the limitet	tions	of san	mole	r size							
		N		criptions based on													Δldri	ch I	nc				



BORING NO.

	DRICE				31		OKIN	J LOC	•		L	IVI VV-5
DO IEOT		0 1 .	1D 1:11	550.0	1 0					DDO IFOT #		age 1 of 1
ROJECT				vestigation - 558 Sa	ckett Street					PROJECT #	0206384	
OCATIO	N	Sackett Heig	Street, Brookly	n, NY						PROJECT MGR. FIELD REP.	M. Conlor	
CONTRAC	TOP		inis LLC Invironmental S	Compiese Com						DATE STARTED	3/26/2024	y, A. Stewart
RILLER	TOR	Adam Hutch		services Corp.						DATE STARTED	3/26/2024	
			Datum		In a state of the	-41	Cas Dlan			DATETHRONED	3/20/2024	
levation		π. Casing		Sampler	Boring Loc Rig Make &		See Plan	Geoprol	ne 5410	Hammer Type	Drilling Mud	Casing Advance
уре		Steel		Macrocore	☐ Truck	x iviouei	Tripod	Сеорго	Cat-Head	□ Safety	□ Bentonite	Type Method Depth
nside Dian	neter (in.)	2		2"	□ ATV	Ø	Geoprobe		Winch	□ Doughnut	□ Polymer	
lammer W		N/A		N/A	☑ Track		Air Track		Roller Bit	□ Automatic	☑ None	Direct Push
lammer Fa	all (in.)	N/A		N/A	□ Skid		Other		Cutting Head	Drilling Notes:		1
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(Col	or, primary			al Identification & I ry component, optional	Description descriptions, odor, moisture	e [SYMBOL])	Remarks
0 -		0			Bro	wn to dark	brown fine to n	nedium sand	8" Concrete	ick fragments, wood, no od	for dry [FII I]	
		0			Bio	wir to durk	orown nine to n	icurum sana	, some graver, large on	ick nagments, wood, no oc	ioi, dry [r iEE]	
1		0										
	22/40											
2	23/48	0										
3		0										
4 -		0										
		0										
5												
_	10/40	0										
6	18/48	0					Brown to lie	ht brown fin	e to medium silty SAN	D, no odor, moist [SM]		
7							Diown to fig.	0.0 11111	Shiry BAIN	, 110 0401, 1110131 [3141]		
		0										
- 8 -		320					Consta boos	C:14		-like odor, moist [SM]		
9		320					Gray to bro	wii iiiie siity	sand, sright petroleum	-like odor, moist [SW]		
		100.6										
10	23/48	15.0					Brown to ligh	t brown fine	to medium SAND, tra	ce silt, no odor, wet [SP]		
11		15.9										
		3.8										
12												
13		0										
13		0										
14	26/48											
15		0										
15												
- 16 -		0										
- 10 -	0/4.0											
17	8/12	0										
								ENI	OF BORING AT 17	FT		
18												
19												
19												
- 20 -												
21												
22												
23												
24												
25												
26												
20												
27												
28												
20												
29												
- 30 -												
		Water	Level Data	1	' 			Sample ID			Summar	у
			De	epth in feet to:			_		-			
Date	Time	Elapsed Time (hr.)		Water			О Т	Open End Thin Wall		Overburden (Line Rock Cored (Line		
		(۱۱۱.)		TTGLEI			Ü	Undisturbe		Number of Samp		
							S	Split Spoo	n Sample			
							G	Geoprobe		BORING NO.		
			*NO	TE: Maximum Par	ticle Size is	determin	ed by direct	observatio	n within the limitati	ons of sampler size.		
		NO								practiced by Haley & A	Aldrich, Inc.	



Elevation

SOIL BORING LOG

BORING NO.

MW-6

			Page 1 of 1
PROJECT	Supplemental Remedial Investigation - 558 Sackett Street	PROJECT#	0206384
LOCATION	558 Sackett Street, Brooklyn, NY	PROJECT MGR.	M. Conlon
CLIENT	Sackett Heights LLC	FIELD REP.	N. Mooney, A. Stewart
CONTRACTOR	Lakewood Environmental Services Corp.	DATE STARTED	3/26/2024
DRILLER	Adam Hutchinson	DATE FINISHED	3/26/2024

Elevation			Datum		Boring Lo		See Plan					
tem		Casing				& Model			pe 5410	Hammer Type	Drilling Mud	Casing Advance
Гуре		Steel	4'		□ Truck		Tripod		Cat-Head	□ Safety	☐ Bentonite	Type Method Depth
nside Dian		2 N/A			□ ATV ☑ Track		Geoprobe		Winch Roller Bit	□ Doughnut□ Automatic	□ Polymer☑ None	Direct Push
Hammer W Hammer Fa		N/A N/A			☑ Track □ Skid		Air Track Other		Roller Bit Cutting Head	☐ Automatic Drilling Notes:	☑ None	
	····/	. 4/1			. 5.114				g . 1000			
Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	(C	Color, primary			al Identification & Des ry component, optional de		re [SYMBOL])	Remarks
- 0 -									8" Concrete		CONT. X 2	
-		0				Brown	to red brown fine to	medium S	SAND, crushed concrete,	trace brick, no odor, dry	/ [FILL]	
1		0										
2	18/48	0										
3		0										
Ŭ		0										
- 4 -		0										
		0										
5		0				Brown	to red brown fine to	medium S	SAND, trace silt, concrete	e fragments, no odor, dry	y [FILL]	
		0										
6	33/48	0										
7		U										
		0					Brown to ora	nge brow	n fine to medium SAND,	no odor, dry [SP]		
- 8 -												
ō		0					Lig	nt brown	medium sand, no odor, m	oist [SP]		
9							2.15	//12	, 5401, 111			
40	40/40	272.2				Grey to brown medium sand, petroleum-like odor, wet [SP]						
10	40/48	108.5										
11												
		36.2					Υ.	ot buc	madium and	oist [CD]		
12		1.2					Lig	ıı brown i	medium sand, no odor, m	oist [SP]		
13		0										
14	28/48	0										
	20, 10											
15		0							1. 6	1 500 50		
		0					Brown to	nght bro	wn silty fine SAND, wet,	no odor [SM]		
– 16 –	7/12											
17		0						¥115 Y	OF DODDIG : T : =			
18								END	O OF BORING AT 17 FT			
19												
- 20 -												
21												
22												
23												
24												
25												
26												
27												
28												
20												
29												
- 30 -												
		Water	Level Data	nth in fact to			Sa	nple ID			Summary	
		Elapsed	De	pth in feet to:	-		O O _l	en End	Rod	Overburden (Lin	ear ft.)	
Date	Time	Time (hr.)		Water			T Th	in Wall T	Гube	Rock Cored (Lin	ear ft.)	
									d Sample	Number of Sam	oles	
					-			lit Spoor oprobe	n Sample	BORING NO.		
										25113 110.		
									within the limitation			
	#2000	N.	UIE: Soil desc	riptions based on a	modified	a Burmister	r method of visua	ıı-manua	ai identification as pra	acticed by Haley & A	iarich, inc.	

APPENDIX C
Well Construction Diagram

HALEY	PER	MANENT	WELL INSTALL	ATION REP	ORT	Well No. MW-1 Boring No.
LOCATION CLIENT CONTRACTOR	558 Sackett Street - Rer 558 Sackett Street, Brod Sackett Heights LLC Coastal Environmental	oklyn, NY	1	H&A FILE NO. PROJECT MGI FIELD REP. DATE INSTALI	R. M. Co A. Vac LED 6/22/2	onlon culik, Z. Simmel
-	Pat Slavin	T Coo	-1	WATER LEVE		Guard Pine
Ground El. El. Datum	11.81 ft NAVD 88	Location See	Plan	Drilling Equipment	Sonic Rig	Guard Pipe LRoadway Box V
SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover/lo		nt.bolt 9/16" hex	x. 1/2" hex. 7/10" hex.
0	0 —		Height/Depth of top	p of guard pipe/roadv	dlock key no way box	<u>0.0</u> ft
-	Concrete		Height/Depth of top above/below groun			ft
Fill Material	1	$\dashv \mid \mid \mid \mid \mid \mid$	Type of protective of	casing:	F	lushmount
	Bentonite	L1	Length			0.7 ft
	з	- $ $ $ $ $ $ $ $	Inside Diameter			6.0in
			Depth of bottom of	f guard pipe/roadway	box	ft
5			—	Type of Seals	Top of Seal (ft)	Thickness (ft)
-			_	Concrete	0.0	1.0
			_	Bentonite	1.0	2.0
				Filter Sand	3.0	12.0
Fill Material	Filter Sand		Depth to top of wel	ll screen	5.0	ft
			Type of riser pipe:			Solid PVC
			Inside diameter		2.0	in
10		L2	Type of backfill a			Filter Sand
			Diameter of boreho	эle	6.0	in Slatted DVC
			Type of screen	r size of openings	IVIauii	ine Slotted PVC 0.010 in
			Diameter of scre	· -		2.0 in
			Type of backfill arou		#() Filter Sand
Native light brown to da brown, fine to coarse sands with some grave	e		_	neasuredvia tape dow		14.96 ft
45	15		Depth of bottom of	-	,	15.0 ft
	m of Exploration)		·			
(Numbers refer to dep	pth from ground surface in feet)			(Not to Scale)		
		5 Riser Pay Len		$\frac{10}{\text{of Screen (L2)}} =$		ength ft
COMMENTS:		Midel 1 dy Le	igui (LI)	Of Scieeti (LZ)	٠ ٠, ٠	engui

HALEY	PER	MANE	NT WELL INSTALI	LATION REP	ORT		Well No. MW-2 Boring No. SB-3	
PROJECT :	558 Sackett Street - Rer	medial Invest	igation	H&A FILE NO		0206384	30-3	
-	558 Sackett Street, Broo		ibutio	PROJECT MG		M. Conlon		
-	Sackett Heights LLC	, .		FIELD REP.		A. Vaculik		
-	Coastal Environmental	Solutions, In	<u>.</u>	DATE INSTAL	LED	6/27/2023		
-	Pat Slavin			WATER LEVE	L	8.64'		
Ground El.	11.88 ft	Location	See Plan	Drilling Equipment	Sonic Rig		Guard Pipe	
El. Datum	NAVD 88		300	59 = 1	<u></u>		Roadway Box	✓
		 		<u> </u>			1,	
SOIL/ROCK	BOREHOLE		-					
CONDITIONS	BACKFILL	_	Type of protective cover		_		I/2" hex. 7/10"	hex.
				top of guard pipe/roadv	dlock key no. vay box		0.0	ft
0			above/below gro	und surface				
		↑ I	Height/Depth of	top of riser pipe			-0.50	ft
	Concrete		above/below gro					_
	1 —	$\dashv \sqcap$	Type of protectiv	e casing:		Flushm	nount	
Fill Material	Bentonite	' L1	Length	c casg.			0.7	— ft
I III Wateriai	Demonite		Inside Diamet	or			6.0	'in
	3	$\dashv \mid \mid$	Illiside Diames	er			0.0	—"
			Depth of bottom	of guard pipe/roadway	box		0.7	ft
-		+		Type of Seals	Top of S	Seal (<u>ft)</u>	Thickness (ft)	
 5 	\neg			Concrete	0.		1.0	
				Bentonite	1.		2.0	— I
				Filter Sand	3.		12.0	—
				111101 30.10				
Fill Material			Depth to top of w		5.			
	Filter Sand		Type of riser pipe	::		Solid	PVC	
				er of riser pipe	2.0	in	ı	
			Type of backf	ill around riser		Filter S	Sand	
10		L2						
	\neg		Diameter of bore	hole	6.0	in	ı	
Native light brown to da	ark							
brown, fine to coarse	e		Type of screen			Machine Slo		
sands with some grave	el		Screen gauge	or size of openings			0.010	in
11	_		Diameter of s	creen			2.0	in
			Type of backfill a	round screen		#0 Filter	r Sand	
مر مرسوم بارساد خارد ا								
Black to dark brown pe and organic matter	at							
			Depth of bottom	(measured via tape dov	vn)		14.34	ft
			Depth of bottom	-	•		15.0	ft
15	15 —		 	•••••				
(Batton	n of Exploration)							
	oth from ground surface in feet)			(Not to Scale)				
			5 ft +	10 ft =		15	ft	
		Riser F		h of Screen (L2)		Pay length	1	
COMMENTS:								

							Well No.	
ALDRICH	PER	MANE	NT WELL INSTAL	LATION REP	ORT		MW-3	
					• • • • • • • • • • • • • • • • • • • •		Boring No. SB-5	
PROJECT	558 Sackett Street - Rei	medial Invest	igation	H&A FILE NO		0206384	35 3	
	558 Sackett Street, Bro			PROJECT MG		M. Conlon		
	Sackett Heights LLC			FIELD REP.		Z. Simmel, A	A. Vaculik	
CONTRACTOR	Coastal Environmental	Solutions, Inc	C.	DATE INSTAL	LED	6/21/2023		
DRILLER	Pat Slavin			WATER LEVE	L	8.69'		
Ground El.	11.93 ft	Location	See Plan	Drilling Equipment	Sonic Rig		Guard Pipe	
El. Datum	NAVD 88		-				Roadway Box	✓
SOIL/ROCK	BOREHOLE						•	
CONDITIONS	BACKFILL		Type of protective cover	r/lock (circle one): Pe	nt.bolt (9/	/16" hex. 1	1/2" hex. 7/10"	hev
CONDITIONS	BACKITEE		Type of protective cover		dlock key no.		1/2 Hex. //10	IICA.
			Height/Denth of	top of guard pipe/roads			0.0	ft
		Г	above/below gro		way box			—"
0 <u> </u>	0 —						0.50	
	_		Height/Depth of above/below gro				-0.50	ft
	Concrete							
	1 —							
Fill Material			Type of protectiv	e casing:		Flushm		
	Bentonite	L1	Length				0.7	ft
	3		Inside Diamet	ter			6.0	in
			Depth of bottom	of guard pipe/roadway	box		0.7	ft
5				Type of Seals	Top of S	Seal (ft)	Thickness (ft)	
				Concrete	0.	.0	1.0	
				Bentonite	1.	.0	2.0	
				Filter Sand	3.	.0	12.0	
Fill Material			Depth to top of w	vell screen	5.	.0 ft		
			Type of riser pipe	: :		Solid	PVC	
	Filter Sand		Inside diamet	er of riser pipe	2.0	in	ı	
			Type of backf	ill around riser		Filter 9	Sand	
10		L2						
10			Diameter of bore	hole	6.0	in	1	
			Type of screen			Machine Slo	otted PVC	
			Screen gauge	or size of openings			0.010	in
			Diameter of s	creen			2.0	in
			Type of backfill a	round screen		#0 Filter	r Sand	
Native light brown to d					-			
brown, fine to coarse sands with some grav								
			Depth of bottom	(measured via tape dov	vn)		15.14	ft
			Depth of bottom		,		15.0	ft
15	15 —			J. Hell Scient				—"
<i>t</i> ~ ···	m of Euployation							
	n of Exploration) oth from ground surface in feet)			(Not to Scale)				
			5 ft +	10 ft =	1	15	ft	
		Riser F		th of Screen (L2)		Pay length		
COMMENTS:								

ALDRICH	PER	MANE	NT WELL INSTALI	LATION REP	ORT		Well No. MW-4 Boring No.	
LOCATION CLIENT	558 Sackett Street - Rei 558 Sackett Street, Bro Sackett Heights LLC Coastal Environmental	oklyn, NY	_	H&A FILE NO PROJECT MG FIELD REP. DATE INSTAL	R.	0206384 M. Conlon Z. Simmel, A. 6/23/2023	SB-7 Vaculik	
DRILLER Ground El.	Pat Slavin 11.99 ft	Location	See Plan	WATER LEVE Drilling Equipment	Sonic Rig	9.3'	Guard Pipe	
El. Datum	NAVD 88	<u> </u>					Roadway Box	✓
SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover		nt.bolt 9/1		2" hex. 7/10"	hex.
0	0 —	 <u> </u>	Height/Depth of above/below gro	top of guard pipe/roadv			0.0	ft
	Concrete		Height/Depth of above/below gro				-0.50	ft
		$\neg \mid \mid$	Type of protective	e casing:		Flushmo	ount	
Fill Material	Bentonite	L1	Length				0.7	ft
	з	$\dashv \mid \mid$	Inside Diamet	er			6.0	in
			Depth of bottom	of guard pipe/roadway	box		0.7	ft
5		<u> </u>		Type of Seals	Top of S	eal (ft)	Thickness (ft)	
				Concrete	0.0)	1.0	
			.	Bentonite	1.0		2.0	
				Filter Sand	3.0	<u> </u>	12.0	<u> </u>
Fill Material			Depth to top of w		5.0			
	Filter Cond		Type of riser pipe		3.0	Solid P	VC	—
	Filter Sand			er of riser pipe ill around riser	2.0	in Filter Sa	and	
10		L2					inu	
			Diameter of bore	hoie	6.0	in		
			Type of screen			Machine Slo		—.
				or size of openings			0.010	in
			Diameter of so Type of backfill a			#0 Eilter	2.0 Sand	in
Native light brown to da brown, fine to coarse sands with some grave	2		туре от ваский а	rounu screen		#0 Filter	Safru	
			Depth of bottom	(measured via tape dov	vn)		14.31	ft
15	15	 -	Depth of bottom	of well screen			15.0	ft
	n of Exploration) oth from ground surface in feet)			(Not to Scale)				
			5 ft +	10 ft =		15	ft	
		Riser F	ay Length (L1) Lengt	h of Screen (L2)		Pay length		
COMMENTS:								

HALEY ALDRICH	PERN	/ANENT	WELL INSTALLA	ATION REPO	ORT -	Well No. MW-5 Boring No. N/A
LOCATION S CLIENT S CONTRACTOR	558 Sackett Street - Supp 558 Sackett Street, Brool Sackett Heights LLC Lakewood Enviornmenta Tim Kelly, Mike Kolasinsl	klyn, NY al Services Corp.	ial Investigation	H&A FILE NO. PROJECT MGI FIELD REP. DATE INSTALI WATER LEVEI	M. Conlon A. Stewart, LED 3/26/2024	, N. Mooney
Ground El. El. Datum			e Plan	Drilling Equipment	Geoprobe® 6610DT	Guard Pipe Roadway Box
SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		Type of protective cover/lo			1/2" hex. 7/10" hex.
o	0 —	<u> </u>	Height/Depth of top above/below groun Height/Depth of top above/below groun	op of guard pipe/roadv nd surface op of riser pipe	dlock key no way box	ft ft
Urban Fill	Concrete	L1	Type of protective of Length Inside Diameter	-	Flush	0.58 ft 6.00 in
	Bentonite		Depth of bottom of	f guard pipe/roadway	box	0.58ft
5	5 —		 	Type of Seals Concrete Bentonite Seal	7op of Seal (ft) 0.00 3.00	3.00 2.00
	7 —		- -	Filter Sand	5.00	12.00
			Depth to top of wel		2-inch 9	7.0 ft Solid PVC
			Inside diameter Type of backfill	• •	Filter	2.0 in
Native light brown to da brown, fine to coarse sands with some grave	e	L2	Diameter of boreho	ole		6.00in
	Filter Sand		Type of screen Screen gauge or	r size of openings	Machine 9	Slotted PVC 0.010 in
			Diameter of screen		#0 Filt	2.0 in
17	17 —		Depth of bottom (m	neasured via tape dow f borehole	vn)	16.71
(Bottom	n of Exploration)					
(Numbers refer to dept	oth from ground surface in feet) -	7 Riser Pay Ler		(Not to Scale) 10 ft of Screen (L2)	- 17 Pay lengt	ft_ th

MA Machine	HALEY ALDRICH	PER	MANEN [*]	T WELL INSTALI	LATION REPC	ORT -	Well No. MW-6 Boring No.	
OCATION SSS Sarkett street, througher, NY PROJECT MRR, M. Combustry March 1997 March	PROJECT :	558 Sackett Street - Sur	pplemental Reme	edial Investigation	H&A FILE NO.	0206384	N/A	
CLIENT Select Heights LIC Select Heights LIC Select Height Open and Services Corp. Depth of bottom of guard pipe/roadway box Depth of guard pipe/roadway box Depth of guard pipe/roadway box Depth of guard pipe/roadway box Dep	-		•	.didi		-		
CONTRACTOR BRILLER TIME Celly, Malke Kolasisonics CROUNDED SOIL, MOCK CONDITIONS BACKUIL 12.06 Th Clocation BORHOUE CONDITIONS BACKUIL Type of protective cover/lock (circle one): Pent-botk Database place productive prover for the pipe above/fellow ground surface Bound surface Li Datum Padiosk key no. 1.27 he. Padiosk key no. 1.20 ft 1.20	_		/мү,			-	N. Moonev	
## ANALYSE AS 1/2 ft 1/2	_		al Services Corp.				•	
Ground EI. Datum RIVER Soll/ROCK BOREHOLE CONDITIONS BACKFILL Type of protective cover/lock (circle one): Pent.bolt Value Pent. Pent. Pent.bolt Value Pent. Pent.bolt Value P	-			·				
SOIL/ROCK CONDITIONS BOREHOLE CONDITIONS BACKFILL Type of protective cover/lock (circle one): Pent. boit	_		1					=
SOIL/ROCK CONDITIONS BACKFILL Type of protective cover/lock (circle one): Pent.boit Volte Pex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" hex. 7/10" hex. Padlock key no. 1/2" hex. 1/2" he		_	Location S	See Plan	Drilling Equipment	Geoprobe® 6610DT	<u> </u>	
Type of protective cover/lock (circle one): Pent. bolt (1/2" hex. 7/10" hex. Padlock key no. Height/Depth of top of guard pipe/roadway box 0.0 ft above/below ground surface Height/Depth of top of riser pipe above/below ground surface Height/Depth of top of riser pipe above/below ground surface Prype of protective casing: Flushmount Length 0.00 in Depth of bottom of guard pipe/roadway box 0.58 ft Inside Diameter Sometime of pipe of protective casing: Flushmount Length 1.50 in Type of seals 1.50 in Thickness (ft) 1.5	El. Datum	NAVD 88			<u> </u>		Roadway Box	<u> </u>
Height/Depth of top of guard pipe/roadway box	SOIL/ROCK	BOREHOLE	_					
Height/Depth of top of guard pipe/roadway box O O O O O O O O O O O O O O O O O O O	CONDITIONS	BACKFILL	_	Type of protective cove			1/2" hex. 7/10" hex	ί.
Virban Fill					top of guard pipe/roadw	· ————	0.0	_ft
Concrete	0	0 —					-0.20	_ft
Solution				Type of protectiv	ve casing:	Flush	mount	
Inside Diameter	Urban Fill	Concrete	L1	Length			0.58	ft
Bentonite Solution of guard pipe/roadway box Depth of bottom of guard pipe/roadway box O.58 ft Type of Seals Concrete O.00 Bentonite Seal Top of Seal (ft) Concrete O.00 Bentonite Seal Top of Seal (ft) Thickness (ft) Concrete O.00 Bentonite Seal Top of Seal (ft) Thickness (ft) Concrete O.00 The sequence of the seal Top of Seal (ft) Thickness (ft) Concrete O.00 Top of Seal (ft) Thickness (ft) Concrete O.00 Top of Seal (ft) Thickness (ft) Concrete O.00 Top of Seal (ft) Thickness (ft) Thic					iter		-	_
Native light brown to dark brown, fine to coarse sands with some gravel Filter Sand Filter Sand Filter Sand Depth of bottom (measured via tape down) Depth of bottom (measured via tape down) Depth of bottom of borehole Type of backfill around screen #0 Filter Sand Type of backfill around screen Type of backf		3 —	$\dashv \mid \mid \mid \mid$					_
Concrete 0.00 3.00 Bentonite Seal 3.00 2.00 Filter Sand 5.00 12.00 Depth to top of well screen Type of riser pipe: 2-inch Solid PVC Inside diameter of riser pipe 1.0 in Filter Sand 5.00 in Type of backfill around riser Type of backfill around riser Filter Sand 6.00 in Type of backfill around screen 7.0 in Filter Sand 5.00 in Type of backfill around riser 5.00 in Type of backfill around screen 8.00 in T		Bentonite		Depth of pottoni	i of guard pipe/roauway s	юх	U.3o	_ ^{''L}
Concrete 0.00 3.00 Bentonite Seal 3.00 2.00 Filter Sand 5.00 12.00 Depth to top of well screen Type of riser pipe: 2-inch Solid PVC Inside diameter of riser pipe 1.0 in Filter Sand 5.00 in Type of backfill around riser Type of backfill around riser Filter Sand 6.00 in Type of backfill around screen 7.0 in Filter Sand 5.00 in Type of backfill around riser 5.00 in Type of backfill around screen 8.00 in T		_			Type of Seals	Top of Seal (ft)	Thickness (ft)	
Bentonite Seal 3.00 2.00 Filter Sand 5.00 12.00 Depth to top of well screen 7.0 ft Type of riser pipe: 2-inch Solid PVC Inside diameter of riser pipe 2.0 in Type of backfill around riser Filter Sand Diameter of borehole 6.00 in Type of screen Machine Slotted PVC Screen gauge or size of openings 0.010 in Type of backfill around screen #0 Filter Sand Diameter of screen 3.0 in Type of screen Machine Slotted PVC Screen gauge or size of openings 0.010 in Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) 16.53 ft Depth of bottom (measured via tape down) 17.0 ft (Reston of Exploration) (Not to Scale)	_	5 —			·	<u> </u>	<u> </u>	ŀ
Pilter Sand 5.00 12.00 Depth to top of well screen 7.0 ft	6							_
Depth to top of well screen Type of riser pipe: 2-inch Soild PVC Inside diameter of riser pipe Type of backfill around riser Filter Sand Diameter of borehole Filter Sand Type of screen Screen gauge or size of openings Diameter of screen Type of backfill around screen Type of backfill around screen Type of backfill around screen Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) (Nour bo Scale) Type of the totograph of the scale) Type of bottom (measured via tape down) Type of bottom of borehole Type of bottom of the scale)							-	-
Native light brown to dark brown, fine to coarse sands with some gravel Filter Sand Type of screen Type of screen gauge or size of openings Diameter of screen Type of backfill around riser T		7 —			Titter June	3.00	12.00	- -
Native light brown to dark brown, fine to coarse sands with some gravel Filter Sand Filter Sand Filter Sand Type of backfill around riser Type of screen Screen gauge or size of openings Diameter of screen Type of backfill around screen Type of backfill around screen Filter Sand Filter Sand Filter Sand Filter Sand Filter Sand Filter Sand Depth of bottom (measured via tape down) Type of backfill around screen #0 Filter Sand ft Depth of bottom of borehole 17.0 ft (Not to Scale)				Depth to top of v	well screen		7.0	ft
Native light brown to dark brown, fine to coarse sands with some gravel Filter Sand Filter Sand Type of backfill around riser Type of screen Type of screen Screen gauge or size of openings Diameter of screen Type of backfill around screen Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) Depth of bottom (measured via tape down) [Bottom of Exploration] (Not to Scale) Type of backfill around riser Filter Sand Filter Sand Filter Sand Filter Sand Type of backfill around screen Machine Slotted PVC Screen gauge or size of openings Diameter of screen #0 Filter Sand ft Depth of bottom (measured via tape down) Depth of bottom of borehole 17.0 ft (Not to Scale)				Type of riser pipe	e:	2-inch	Soild PVC	_
Native light brown to dark brown, fine to coarse sands with some gravel Filter Sand Filter Sand Filter Sand Filter Sand Filter Sand Diameter of borehole Type of screen Screen gauge or size of openings Diameter of screen Type of backfill around screen Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) Type of bottom of Exploration) (Not to Scale) (Not to Scale)				Inside diame	ter of riser pipe		2.0	in
brown, fine to coarse sands with some gravel Filter Sand Diameter of borehole Screen gauge or size of openings Diameter of screen Type of backfill around screen Type of backfill around screen #0 Filter Sand 17.0 ft (Bottom of Exploration) (Not to Scale)				Type of backt	fill around riser	Filte	r Sand	_
Screen gauge or size of openings Diameter of screen Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) Type of bottom of borehole 17.0 ft (Numbers refer to depth from ground surface in feet) 7 ft + 10 ft = 17 ft	brown, fine to coarse	2	L2	Diameter of bore	ehole		6.00	_in
Screen gauge or size of openings Diameter of screen Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) Type of bottom of borehole 17.0 ft (Numbers refer to depth from ground surface in feet) 7 ft + 10 ft = 17 ft				← Type of screen		Machine	Slotted PVC	
Diameter of screen Type of backfill around screen Depth of bottom (measured via tape down) Type of backfill around screen Depth of bottom (measured via tape down) Type of backfill around screen Depth of bottom of borehole 17.0 ft (Numbers refer to depth from ground surface in feet) 7 ft + 10 ft = 17 ft		Filter Sand			or size of openings		0.010	in
Type of backfill around screen #0 Filter Sand Depth of bottom (measured via tape down) 16.53 ft Depth of bottom of borehole 17.0 ft (Numbers refer to depth from ground surface in feet) (Not to Scale) 7 ft + 10 ft = 17 ft								_
Depth of bottom (measured via tape down) 16.53 ft Depth of bottom of borehole 17.0 ft (Numbers refer to depth from ground surface in feet) 7 ft + 10 ft = 17 ft				—		#0 Filt		
17				Type of Suckim o	iiOunu Scieen		er sanu	_
17				Don'th of hottom	- /d via tana daw	1	16.50	4
(Bottom of Exploration) (Numbers refer to depth from ground surface in feet) 7 ft + 10 ft = 17 ft					•	n)		
(Numbers refer to depth from ground surface in feet) 7 ft + 10 ft = 17 ft	17	17		Depth of bottom	ı of borehole		17.0	_ft
7 ft + 10 ft = 17 ft	(Bottom	n of Exploration)						
7 ft + 10 ft = 17 ft	(Numbers refer to dep	oth from ground surface in feet)	İ		(Not to Scale)			
	,		7	ft +		17	ft	
· · · · · · · · · · · · · · · · · · ·								

ALDRICH	PERI	MANEI	NT WELL INSTALL	ATION REPO	ORT	Well No. MW-7 Boring No. SB-2A-S1	
PROJECT	558 Sackett Street - Sup	plemental R	emedial Investigation	H&A FILE NO	. 0206384	JD <u>L</u> J_	
=	558 Sackett Street, Broo	-	<u> </u>	PROJECT MG			
=	Sackett Heights LLC			FIELD REP.	-	, N. Mooney	
=	Lakewood Enviornment	al Services C	orp.	DATE INSTAL	-		
_	Tim Kelly, Mike Kolasins			WATER LEVE			
Ground El.	11.86 ft	Location	See Plan	Drilling Equipment	Geoprobe® 6610DT	Guard Pipe	
El. Datum	NAVD 88	Location	Jee 1 1011	Drining Lyanpine	deoprobe color.	Roadway Box	✓
				<u> </u>			
SOIL/ROCK	BOREHOLE		_				
CONDITIONS	BACKFILL	_	Type of protective cover,	lock (circle one): Pe	nt.bolt 9/16" hex.	1/2" hex. 7/10" h	hex.
				Pa	dlock key no	_	
0	_ 0 _		Height/Depth of to above/below grou	op of guard pipe/roadv und surface	way box	0.0	ft
			Height/Depth of to above/below group			-0.20	ft
			Type of protective	casing:	Flush	mount	
	Concrete	L1	Length			0.58	ft
Urban Fill			Inside Diamete	er		6.00	in
	3 —	-	Depth of bottom of	of guard pipe/roadway	box	0.58	ft
i	Bentonite						
i	_			Type of Seals	Top of Seal (ft)	Thickness (ft)	ļ
i	5 —	$\exists \sqcup \sqsubseteq$		Concrete	0.00	3.00	ļ
i			-	Bentonite Seal	3.00	2.00	
i			-	Filter Sand	5.00	12.00	
8 <u></u>	7 —	─	-	Filler Sanu	3.00	12.00	_
			-			-	
i			Dorth to top of w	U		7.0	£.
			☐ Depth to top of w		2 inch		ft
			Type of riser pipe:		Z-INCII	Solid PVC	—.
			Inside diamete	• •		2.0	in
			Type of backfil	l around riser	Filte	r Sand	
		L2	Diameter of borek	nole		6.00	in
Native light brown to da brown, fine to coarse			Type of screen		Machine	Slotted PVC	
sands with some grave	el		Screen gauge o	or size of openings		0.010	in
11.5	Filter Sand		Diameter of so	reen		2.0	in
	\neg		Type of backfill ar	ound screen	#0 Filt	er Sand	
Dark brown peat and organic matter	1			measured via tape dov	wn)	16.53	ft
17		 	Depth of bottom of	of borehole		17.0	ft
(Botton	m of Exploration)						
(Numbers refer to dep	oth from ground surface in feet)			(Not to Scale)			
			7 ft +	10 ft =	17	ft	
		Riser P	Pay Length (L1) Length	n of Screen (L2)	Pay leng	th	

APPENDIX D
Groundwater Sampling Logs

PROJECT	558 Sackett Street - Rer	medial Investigation		H&A FILE NO.	0206384			_
OCATION	558 Sackett Street, Broo	oklyn, NY		PROJECT MGR.	M. Conlon	_		
CLIENT	Sackett Heights LLC			FIELD REP	A. Vaculik			-
CONTRACTOR	N/A			DATE	7/17/2023			-
			GROUNDWAT	ER SAMPLING INFOR	RMATION			
Well ID:	MW-1		Well Volume:	1.1 gal	_	Start Time:	1137	_
Well Depth:	14.97'		Equipment:	Peristaltic Pump; YSI; HDP	E Tubing	Sample Time:	1220	-
Depth to Water:	8.21'		Purge Rate (ml/min):	243	_			
Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, ms/cm	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (f
11:40	0.28	18.22	2.443	3.30	7.20	11.4	15.30	8.21
11:45	0.56	17.90	2.425	1.74	6.88	90.2	15.10	8.80
11:50	0.84	17.80	2.401	1.67	6.88	95.7	15.50	8.85
11:55	1.13	17.91	2.404	1.94	6.87	108.1	9.00	9.20
12:00	1.41	17.99	2.409	1.94	6.80	105.1	6.05	9.90
12:05	1.69	17.81	2.399	1.95	6.71	106.7	7.11	10.50
12:10	1.97	17.85	2.400	1.94	6.78	107.1	8.56	11.25
12:15	2.25	17.83	2.401	1.94	6.74	107.3	8.79	11.87

PROJECT	558 Sackett Street - Rer	medial Investigation		H&A FILE NO.	0206384			_
LOCATION	558 Sackett Street, Broo	oklyn, NY		PROJECT MGR.	M. Conlon			_
CLIENT	Sackett Heights LLC			FIELD REP	A. Vaculik	-		
CONTRACTOR	N/A			DATE	7/6/2023			-
			GROUNDWAT	TER SAMPLING INFOR	RMATION			
Well ID:	MW-2		Well Volume:	0.83 gal		Start Time:	1130	-
Well Depth:	14.90'		Equipment:	Peristaltic Pump; YSI; HDP	E Tubing	Sample Time:	1210	-
Depth to Water:	9.80'		Purge Rate (ml/min): 232		_			
Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, ms/cm	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (f
11:30	0.27	18.37	1.552	6.5	6.77	-150.8	46.3	9.8
11:35	0.54	17.72	1.524	1.4	6.75	-149.8	45.0	9.4
11:40	0.82	17.81	1.691	1.9	6.64	-147.7	61.8	9.5
11:45	1.09	17.90	1.893	2.3	6.80	-143.6	625 AU	9.8
11:50	1.36	18.10	2.000	1.9	6.82	-119.8	67.0	9.8
11:55	1.63	17.92	1.998	2.0	6.81	-116.7	65.0	9.7
12:00	1.91	17.77	2.002	1.9	6.82	-119.8	66.1	9.8
12:05	2.18	17.69	2.004	1.8	6.83	-116.8	59.2	9.7
12:10	2.45	17.75	2.006	1.9	6.82	-114.9	50.1	9.8
<u> </u>								

PROJECT	558 Sackett Street - Re	medial Investigation		H&A FILE NO.	0206384	0206384		_
LOCATION	558 Sackett Street, Bro	oklyn, NY		PROJECT MGR.	M. Conlon			_
CLIENT	Sackett Heights LLC			FIELD REP	A. Vaculik 7/17/2023			_
CONTRACTOR	N/A			DATE				
			GROUNDWAT	TER SAMPLING INFOR	RMATION			
Well ID:	MW-3		Well Volume:	0.95 gal		Start Time:	737	_
Well Depth:	14.63'		Equipment:	Peristaltic Pump; YSI; HDP	E Tubing	Sample Time:	820	-
Depth to Water:	8.81'		Purge Rate (ml/min):	334	_			
Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, ms/cm	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (f
7:40	0.38	18.03	2.158	0.92	6.87	-3.0	60.5	8.81
7:45	0.76	17.99	2.166	1.30	6.94	-0.2	58.7	9.01
7:50	1.14	17.95	2.165	1.32	6.99	-4.3	38.7	8.90
7:55	1.51	17.87	2.165	1.31	6.93	-4.4	16.9	8.97
8:00	1.89	17.81	2.166	1.31	6.93	-4.5	15.3	8.91
8:05	2.27	17.83	2.165	1.31	6.91	-4.5	15.2	8.96
8:10	2.65	17.82	2.169	1.32	6.93	-4.5	15.3	8.99

PROJECT	558 Sackett Street - Ren	medial Investigation		H&A FILE NO.	0206384			_
LOCATION	558 Sackett Street, Broo	oklyn, NY		PROJECT MGR.	M. Conlon			_
CLIENT	Sackett Heights LLC			FIELD REP	A. Vaculik			_
CONTRACTOR	N/A			DATE	7/17/2023			
			GROUNDWAT	ER SAMPLING INFOR	MATION			
Well ID:	MW-4		Well Volume:	0.82 gal	_	Start Time:	910	<u>-</u>
Well Depth:	14.51		Equipment:	Peristaltic Pump; YSI; HDP	E Tubing	Sample Time:	1015	-
Depth to Water:	9.21		Purge Rate (ml/min):	297	_			
Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, ms/cm	Dissolved Oxygen, mg/L	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<s ntu)<="" th=""><th>Depth to Water (ft)</th></s>	Depth to Water (ft)
9:15	0.34	19.57	1.127	0.38	7.07	-23.7	656 AU	9.21
9:20	0.69	19.12	1.173	16.50	6.93	-28.4	103.0	9.20
9:25	1.03	19.07	1.173	0.50	6.94	-29.4	73.0	9.18
9:30	1.38	18.95	1.169	0.41	6.80	-24.3	30.2	9.18
9:35	1.72	18.99	1.170	0.45	6.82	-26.3	32.5	9.32
9:40	2.06	19.30	1.170	0.42	6.79	-26.4	43.6	9.33
9:45	2.41	19.10	1.169	0.46	6.80	-26.7	40.1	9.30
9:50	2.75	18.94	1.173	0.48	6.82	-26.5	40.3	9.28
	+							

APPENDIX D1
Supplemental Groundwater Sampling Logs



PROJECT Former A&A Brake Service Site - Remedial Investigation H&A FILE NO. 0206384 LOCATION PROJECT MGR. 558 Sackett St. Brooklyn, NY M. Conlon N. Manzione CLIENT Sackett Heights LLC FIELD REP CONTRACTOR N/A DATE 4/4/2024

GROUNDWATER SAMPLING INFORMATION

Well ID: MW-1 Well Volume: 1.40 gal Start Time: 15:15

Well Depth: 14.98 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 16:20

Depth to Water: 6.38 ft btoc

Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
15:20	0.25	13.77	0.897	10.96	7.64	159	>1000	6.38
15:25	0.6	13.34	0.982	10.62	7.66	163	>1000	6.73
15:30	0.9	13.47	1.03	10.42	7.69	167	844	6.73
15:35	1.2	13.22	1.07	11.76	7.64	174	581	6.76
15:40	1.45	13.14	1.12	10.37	7.63	178	543	6.81
15:45	1.65	12.98	1.15	10.37	7.62	181	446	6.84
15:50	2.05	12.77	1.2	10.42	7.59	182	392	6.89
15:55	2.45	12.53	1.22	10.33	7.6	200	155	7.01
16:00	2.8	12.38	1.24	9.43	7.59	243	38.8	7.08
16:05	3.05	12.33	1.24	9.69	7.56	263	37.1	7.1
16:10	3.45	12.3	1.24	9.8	7.54	264	10.7	7.1
16:15	3.75	12.28	1.24	9.79	7.54	271	6.9	7.15



PROJECT Former A&A Brake Service Site - Remedial Investigation H&A FILE NO. 0206384 LOCATION PROJECT MGR. 558 Sackett St. Brooklyn, NY M. Conlon N. Manzione CLIENT Sackett Heights LLC FIELD REP CONTRACTOR N/A DATE 4/5/2024

GROUNDWATER SAMPLING INFORMATION

 Well ID:
 MW-2
 Well Volume:
 1.31 gal
 Start Time:
 12:20

Well Depth: 14.91 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 13:15

Depth to Water: 6.89 ft btoc

	Valuma muma1			T	T	T	T =	I
Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
12:25	0.25	11.72	0.261	7.25	8.01	10	260	6.89
12:30	0.5	11.08	0.256	5.43	8.07	36	236	6.96
12:35	0.9	10.64	0.251	5.07	8.16	64	86.4	6.96
12:40	1.25	10.62	0.251	6.72	8.16	68	75.7	7.05
12:45	1.7	10.61	0.252	6.54	8.18	71	57.3	7.05
12:50	2.05	10.61	0.252	6.41	8.21	76	20.3	7.05
12:55	2.5	10.6	0.252	6.28	8.22	77	16.4	7.05
13:00	2.9	10.59	0.252	6.31	8.25	64	5.1	7.05
13:05	3.2	10.53	0.252	6.34	8.26	60	2.5	7.05
13:10	3.65	10.49	0.252	6.46	8.26	54	1.3	7.05



PROJECT Former A&A Brake Service Site - Remedial Investigation H&A FILE NO. 0206384

LOCATION 558 Sackett St. Brooklyn, NY PROJECT MGR. M. Conlon

CLIENT Sackett Heights LLC FIELD REP N. Manzione

CONTRACTOR N/A DATE 4/3/2024

GROUNDWATER SAMPLING INFORMATION

Well ID: MW-3 Well Volume: 1.33 gal Start Time: 14:40

Well Depth: 14.65 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 15:30

Depth to Water: 6.49 ft btoc

Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
14:45	0.2	12	1.82	4.33	7.22	150	284	6.49
14:50	0.45	11.93	1.81	4.12	7.2	150	166	6.49
14:55	0.75	11.9	1.81	4.05	7.2	147	97.2	6.49
15:00	1.1	11.39	1.8	4.08	7.19	158	65.7	6.49
15:05	1.35	11.16	1.77	4.06	7.21	162	45.4	6.49
15:10	1.55	11.16	1.76	4.05	7.21	163	20.3	6.49
15:15	1.75	11.23	1.79	3.97	7.2	169	15.9	6.49
15:20	2.05	11.38	1.8	3.9	7.2	173	8.1	6.49
15:25	2.45	11.39	1.81	3.72	7.2	175	6.5	6.49
15:30	3.05	11.41	1.83	3.64	7.19	178	4.1	6.49



PROJECT	Former A&A Brake Service Site - Remedial Investigation	H&A FILE NO.	0206384
LOCATION	558 Sackett St. Brooklyn, NY	PROJECT MGR.	M. Conlon
CLIENT	Sackett Heights LLC	FIELD REP	N. Manzione
CONTRACTOR	N/A	DATE	4/4/2024

GROUNDWATER SAMPLING INFORMATION

Well ID: MW-4 Well Volume: 0.83 gal Start Time: 12:10

Well Depth: 14.52 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 12:55

Depth to Water: 9.41 ft btoc

Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
12:15	0.35	16.84	0.588	10.32	4.92	119	162	9.41
12:20	0.65	14.72	0.866	1.11	7.05	98	10.2	9.41
12:25	1.05	14.56	0.847	0.98	7.18	108	2.4	9.41
12:30	1.45	14.53	0.814	1.95	7.24	118	0	9.41
12:35	1.9	14.41	0.745	1.63	7.25	126	0	9.41
12:40	2.15	14.37	0.784	1.61	7.26	129	0	9.41
12:45	2.5	14.34	0.782	1.59	7.27	131	0	9.41
12:50	2.9	14.33	0.779	1.59	7.28	132	0	9.41
12:55	3.3	14.34	0.778	1.6	7.28	132	0	9.41



PROJECT Former A&A Brake Service Site - Remedial Investigation H&A FILE NO. 0206384

LOCATION 558 Sackett St. Brooklyn, NY PROJECT MGR. M. Conlon

CLIENT Sackett Heights LLC FIELD REP N. Manzione

CONTRACTOR N/A DATE 4/3/2024

GROUNDWATER SAMPLING INFORMATION

Well ID: MW-5 Well Volume: 1.16 gal Start Time: 12:30

Well Depth: 16.71 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 14:00

Depth to Water: 9.72 ft btoc

Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
12:35	0.35	13.07	3.08	0.00	7.14	-70	>1000	9.72
12:40	0.75	13.06	3.09	0.00	7.09	-70	>1000	9.72
12:45	0.95	12.99	3.13	0.00	7.05	-74	748	10.15
12:50	1.25	12.98	3.17	0.00	7.02	-76	>1000	10.43
12:55	1.65	13	3.18	0.00	7	-74	350	10.71
13:00	1.95	13.07	3.11	0.00	6.95	-76	>1000	10.71
13:05	2.2	13.1	3.07	0.00	6.94	-74	611	10.71
13:10	2.55	12.97	2.95	0.00	6.92	-71	286	10.71
13:15	2.8	12.91	2.87	0.00	6.93	-70	638	10.71
13:20	3.25	13.13	2.72	0.00	6.93	-68	200	10.71
13:25	3.5	12.98	2.64	0.00	6.93	-69	152	10.71
13:30	3.95	13.14	2.58	0.00	6.93	-68	123	10.71
13:35	4.2	13.14	2.52	0.00	6.93	-68	89.5	10.71
13:40	4.45	13.66	2.23	0.00	6.92	-70	273	10.71
13:45	4.85	13.55	2.23	0.00	6.92	-68	342	10.71
13:50	5.2	13.7	2.21	0.00	6.9	-64	245	10.71
13:55	5.65	13.71	2.19	0.00	6.89	-64	321	10.71



PROJECT Former A&A Brake Service Site - Remedial Investigation H&A FILE NO. 0206384 LOCATION PROJECT MGR. 558 Sackett St. Brooklyn, NY M. Conlon N. Manzione CLIENT Sackett Heights LLC FIELD REP CONTRACTOR N/A DATE 4/5/2024

GROUNDWATER SAMPLING INFORMATION

Well ID: MW-6 Well Volume: 1.19 gal Start Time: 9:55

Well Depth: 16.53 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 11:05

Depth to Water: 9.48 ft btoc

Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
10:00	0.35	12.4	0.841	2.1	6.07	-7	776	9.48
10:05	0.75	13.52	0.82	0.91	7.02	-59	807	9.48
10:10	1.15	13.57	0.819	0.56	7.12	-71	141	9.49
10:15	1.55	13.69	0.826	0.22	7.18	-77	106	9.49
10:20	2	13.79	0.83	0.08	7.24	-84	87.1	9.49
10:25	2.45	13.83	0.83	0.06	7.27	-86	62.4	9.49
10:30	3	13.9	0.829	0.42	7.29	-91	54	9.49
10:35	3.35	13.92	0.829	0.41	7.31	-94	50.7	9.49
10:40	3.65	13.93	0.831	0.42	7.32	-97	44.6	9.49
10:45	4.05	13.98	0.832	1.7	7.33	-99	38.7	9.49
10:50	4.45	14.03	0.83	1.69	7.33	-99	25.5	9.49
10:55	4.75	14.05	0.829	1.49	7.33	-101	11.9	9.49
11:00	5.1	14.07	0.827	1.4	7.33	-105	7.4	9.49



PROJECT Former A&A Brake Service Site - Remedial Investigation H&A FILE NO. 0206384 LOCATION PROJECT MGR. 558 Sackett St. Brooklyn, NY M. Conlon N. Manzione CLIENT Sackett Heights LLC FIELD REP CONTRACTOR N/A DATE 4/3/2024

GROUNDWATER SAMPLING INFORMATION

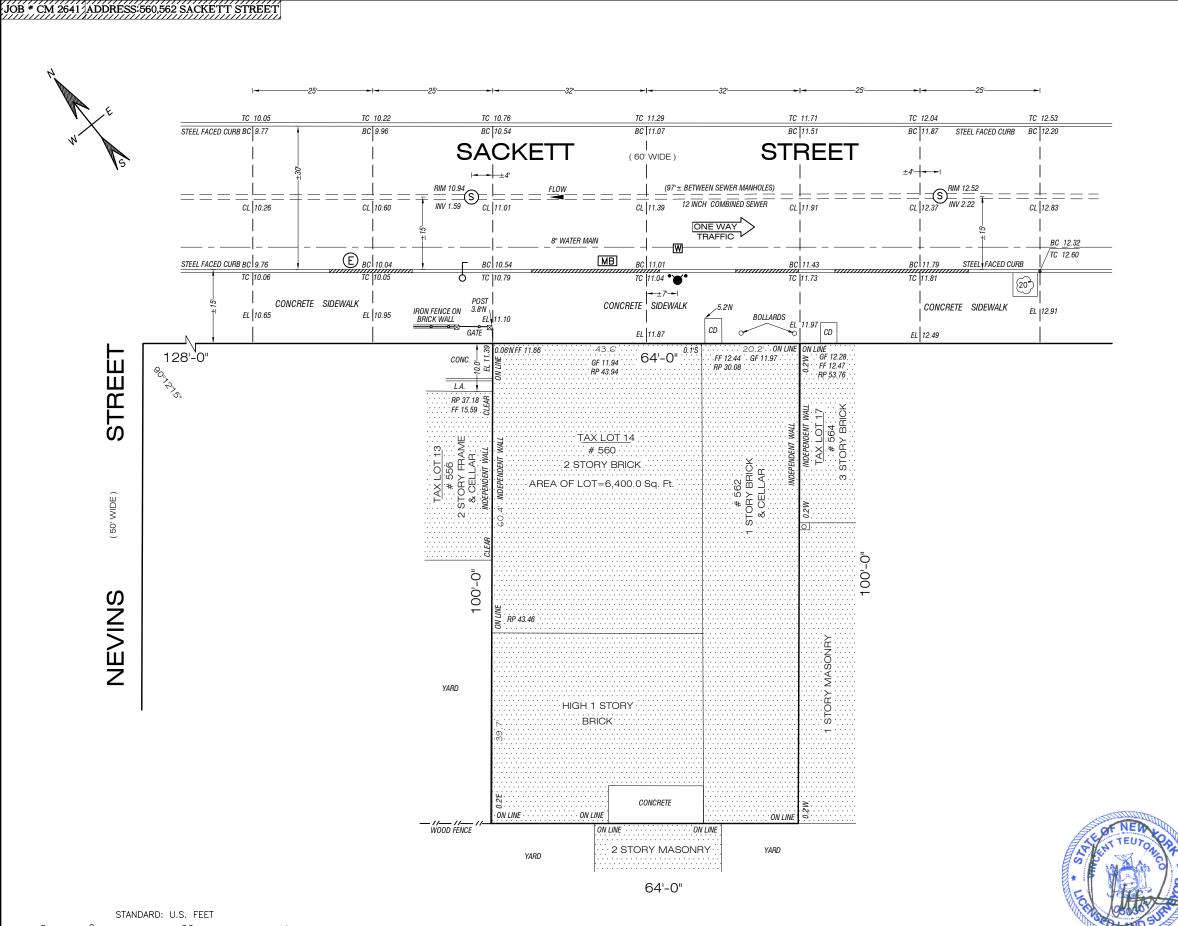
Well ID: MW-7 Well Volume: 1.27 gal Start Time: 10:15

Well Depth: 16.53 ft btoc Equipment: Peristaltic Pump, Horiba U-52 Sample Time: 11:20

Depth to Water: 6.97 ft btoc

Time	Volume purged, gallons	Temp, C (+/-3%)	Conductivity, us/cm	Dissolved Oxygen, mg/L	pH (+/-0.1)	ORP/eH, mv (+/-10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
10:20	0.125	11.23	1.96	2.43	7.56	96	>1000	6.97
10:25	0.35	10.97	1.95	3.27	7.42	86	878	6.97
10:30	0.5	10.9	1.94	3.2	7.43	90	683	6.97
10:35	0.75	10.79	1.91	3.13	7.44	98	190	6.97
10:40	1.15	10.72	1.87	3.17	7.44	109	90.9	6.97
10:45	1.35	10.6	1.84	3.17	7.45	116	32.7	6.97
10:50	1.85	10.56	1.82	3.2	7.46	118	90.7	6.97
10:55	2.25	10.54	1.8	3.17	7.46	123	32.7	6.97
11:00	2.5	10.53	1.77	3.17	7.42	127	40.7	6.97
11:05	3	10.39	1.74	3.08	7.47	130	14.8	6.97
11:10	3.5	10.39	1.72	3	7.48	131	8.5	6.97
11:15	3.85	10.37	1.72	2.95	7.48	132	7.4	6.97

APPENDIX E Survey Maps



SCALE: 1 INCH = 20 FEET

CAPTION	ARCHITECTURAL SURVEY
DATE	REVISIONS
04-20-2022	ARCHITECTURAL SURVEY

GENERAL NOTES:

- 1. This survey was prepared only for the party (parties) and purpose indicated hereon.
- 2. Property corner monuments or markers were (not) placed as part of this survey.
- 3. Certifications on this survey map signify that the map was prepared in accordance with the current existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. Said certifications are limited to the party (parties) for whom the survey is prepared
- 4. The location and nature of underground structures, internal walls and improvements or encroachments not visible to the surveyor are not covered under this certification.

 5. Easements of record are only guaranteed if an Abstract of Title is furnished to the surveyor.
- 6. This is to certify that there are no streams nor natural water courses on the property except as shown
- 7. Elevations refer to NAVD 1988 datum.

	DATE	ВҮ		DATE	BY
SURVEYED	04-20-2022	V.B & V.J	DRAWN	04-24-2022	V.B

LEGEND FIRST FLOOR ELEVATION ROOF SOFFIT ELEVATION ROOF PARAPET ELEVATION TOP OF CURB BOTTOM OF CURB CENTERLINE SPOT ELEVATION EL LA LOWER AREA BOTTOM OF WALL CONCRETE INVERT ELEVATION SEWER MANHOLE (i) UTILITY POLE WATER VALVE G GAS VALVE MB METAL BOX LIGHT POLE STREET SIGN HYDRANT TREE & SIZE -WOOD FENCE CHAIN LINK FENCE DROP CURB





VINCENT TEUTONICO, L.S.

NEW YORK LICENSE 050307

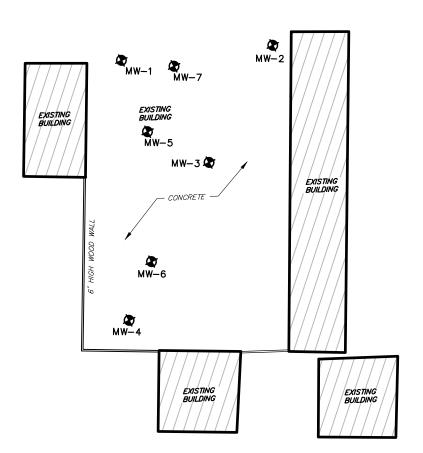
114-34 122nd STREET SOUTH OZONE PARK NY 11420 email: citymapping@yahoo.com

MAP OF SURVEY OF PROPERTY IN THE BOROUGH AND COUNTY OF BROOKLYN CITY AND STATE OF NEW YORK TAX MAP: BLOCK 433, LOT 14

NE VINS ST

SACKETT ST

CONC. CURB



MONITORING WELLS	GROUND	RIM	PVC	DATE OF SURVEY
MW-1	11.81 CONC	11.82	11.60	July 14, 2023
MW-2	11.88 CONC	11.89	11.67	July 14, 2023
MW-3	11.93 BRICK	11.95	11.41	July 14, 2023
MW-4	11.99 CONC	12.00	11.74	July 14, 2023
MW-5	11.96 CONC	11.96	11.69	April 25, 2024
MW-6	12.06 CONC	12.08	11.85	April 25, 2024
MW-7	11.86 CONC	11.87	11.65	April 25, 2024

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.

NOTES:

- 1. FIELD WORK PERFORMED ON JULY 14, 2023 AND APRIL 25, 2024.
- ELEVATION DATUM NAVD 1988 DERIVED USING RTK/KEYNET. NYBR BROOKLYN PIER CORS ARP ELEV.=42.13' (NAVD 88)

GRAPHIC SCALE (IN FEET)

1 inch = 30 ft.

1	04/29/2024	ADDED MW-5, MW-6 & MW-7	R.M.	C.S.
REV	DATE	DESCRIPTION	BY	CHKD

_{date} 04/29/2024

Date: 07/17/23 Dr.: R.M.

James J. Heiser
Professional Land Surveyor
JHEISER@DPKCONSULTING.NET

N.J. Lic: 24GS04331100 PA. Lic: SU075616 N.Y. Lic: 050932-1 CT. Lic: 70476 DE. Lic: S6-0010858 DPK LAND SURVEYING

SCALE: 1" = 30'

JOB No. 23-10007 Dwg: 23-10007 MW01

DPK LAND SURVEYING, LLC 200 METROPLEX DRIVE - STE. 285, EDISON, NJ 08817 P:732-764-0100 F: 732-764-0990 NEW YORK CERTIFICATE OF AUTHORIZATION NO. 0012585

MONITORING WELL LOCATION MAP

FOR:
HALEY & ALDRICH OF NEW YORK
SITE:
558 SACKETT STREET
BROOKLYN
KINGS COUNTY, NEW YORK

\\23-10007 MW01.dwg May 01, 2024-2:34pm BY:(RogerMaandal)

APPENDIX F
Synoptic Monitoring Well Gauging Log



Synoptic Monitoring Well Gauging Log

PROJECT 558 Sackett Street - Remedial Investigation

LOCATION 558 Sackett Street, Brooklyn, NY

CLIENT Sackett Heights LLC

 H&A FILE NO.
 0206384

 PROJECT MANAGER
 M. Conlon

 FIELD REP.
 M. Cal

 GAUGING DATE
 4/26/2024

WEATHER H: 59°F L: 41°F, Mostly Sunny, Wind: SW to NE, 3mph, Humidity: 76%

		DEPTH TO WATER (FT			GROUNDWATER
MONITORING WELL ID	TIME	BELOW TOC)	WELL DEPTH (FT)	TOP OF CASING (FT)	ELEVATION (FT)
MW-1	7:48	9.84	15.13	11.60	1.76
MW-2	7:56	8.18	14.35	11.67	3.49
MW-3	8:52	10.27	15.17	11.41	1.14
MW-4	8:25	10.87	14.24	11.74	0.87
MW-5	8:12	10.78	16.71	11.69	0.91
MW-6	8:17	11.09	16.53	11.85	0.76
MW-7	7:51	7.97	16.53	11.65	3.68

Comments:

- 1. Monitoring wells MW-1 through MW-4 were surveyed on 17 July 2023 and MW-5 through MW-7 were surveyed on 26 April 2024 by DPK Consulting.
- 2. Wells were gauged on 26 April 2024
- 3. Elevation refers to the North American Vertical Datum of 1988 (NAVD88).
- 4. All dimensions are in US survey feet.

APPENDIX G
Soil Vapor Sampling Logs



SOIL VAPOR SAMPLING LOG

Project Name/Location: 558 Sackett Street Brooklyn NY Project Number: 0206384

Site: 558 Sackett Street Brooklyn NY

Date Collected: 6/27/2023 and 6/28/2023

Personnel: A. Vaculik

Weather: Sunny

Humidity: 74%

Sample ID	Caniser Size	Canister ID	Flow Controller ID	Sample Start Time	Canister Start Pressure ("Hg)	Sample End Time	Canister End Pressure ("Hg)	Sample Start Date	Sample Type	Analyses Method
SV-1	2.7L	262	0975	720	-29.43	910	-7.63	6/28/2023	Soil Vapor	TO-15
SV-2	2.7L	2032	01951	1220	-29.86	1400	-8.28	6/27/2023	Soil Vapor	TO-15
SV-3	2.7L	2214	0676	722	-29.30	912	-8.34	6/28/2023	Soil Vapor	TO-15
SV-4	2.7L	2789	01822	1223	-29.64	1402	-9.27	6/27/2023	Soil Vapor	TO-15
SV-5	2.7L	2204	01822	1226	-29.78	1403	-8.55	6/27/2023	Soil Vapor	TO-15
SV-6	2.7L	2081	01811	725	-29.30	915	-8.53	6/28/2023	Soil Vapor	TO-15
SV-7	2.7L	2396	01611	1225	-29.81	1405	-9.21	6/27/2023	Soil Vapor	TO-15

Notes:

Summas and flow regulators provided by Alpha Analytical Laboratory

Analyses for VOCs by Method TO-15 TO-15SIM (circle one)

APPENDIX H Analytical Laboratory Reports

APPENDIX I Data Usability Summary Reports





Data Usability Summary Report

Project Name: Sackett Street

Project Description: Soil Gas Samples

Sample Date(s): 26 June through 28 June 2023

Analytical Laboratory: Alpha Analytical - Westborough, MA

Validation Performed by: Kirkland Broadwell
Validation Reviewed by: Katherine Miller

Validation Date: 1 August, 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers
- 2. Precision and Accuracy
- 3. Explanations
- 4. Glossary
- 5. Abbreviations
- 6. Qualifiers

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and therefore usable; any exceptions are noted in the following pages.



1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of the following SDG numbers:

- L2336824, dated 5 July 2023; and
- L2336978, dated 5 July 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

• SDG L2336824: The cannister ID for sample SV-7 (2392) was listed on the COC incorrectly as 2396

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
SV-2-20230626	N	L2336824-01	06/26/2023	GS	Α
SV-4-20230626	N	L2336824-02	06/26/2023	GS	Α
SV-5-20230626	N	L2336824-03	06/26/2023	GS	Α
SV-7-20230626	N	L2336824-04	06/26/2023	GS	Α
SV-1-20230628	N	L2336978-01	06/28/2023	GS	Α
SV-3-20230628	N	L2336978-02	06/28/2023	GS	А
SV-6-20230628	N	L2336978-03	06/28/2023	GS	А

		Method Holding Times	
A.	TO-15	VOCs	30 days

1.2 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

Lab ID	Method	Analyte	Qualification
L2336824-03D	TO-15	2,2,4-Trimethylpentane	The laboratory reanalyzed the sample at dilution due to a calibration exceedance. The original results are marked nonreportable, and the reanalysis results are accepted.

1.3 HOLDING TIMES/PRESERVATION



The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

The RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific QAPP.

1.5 SURROGATE RECOVERY COMPLIANCE

<u>Refer to Section E 1.2.</u> The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control limits.

1.6 LABORATORY CONTROL SAMPLES

<u>Refer to Section E 1.3</u>. Compounds associated with the laboratory control samples (LCS) analyses associated with client samples exhibited recoveries within the specified limits.

1.7 BLANK SAMPLE ANALYSIS

<u>Refer to Section E 1.5.</u> Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.8 DUPLICATE SAMPLE ANALYSIS

<u>Refer to Section E 1.6.</u> The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

1.9 CLEAN CANISTER CERTIFICATION

The canisters used for the TO-15 sample collection were certified clean by individual can analysis prior to sampling to ensure that no target analytes were present. These analysis sheets were reviewed, and no target analytes were detected in the laboratory-provided canisters.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. No qualifiers were applied to any data in this report.



2. Precision and Accuracy

<u>Refer to Section E 1.7.</u> Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.



3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the
 analysis to demonstrate acceptable method precision. The relative percent difference
 (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor
 the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a matrix spike/matrix spike duplicate (MS/MSD) pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike, MS, and/or surrogate recoveries.



4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

Sample Types:

EB Equipment Blank Sample
 FB Field Blank Sample
 FD Field Duplicate Sample
 N Primary Sample
 TB Trip Blank Sample

Units:

μg/kg micrograms per kilogram
 μg/L micrograms per liter
 μg/m³ micrograms per cubic meter

mg/kg milligrams per kilogrammg/L milligrams per liter

ppb v/v parts per billion volume/volume

pCi/L picocuries per literpg/g picograms per gram

Matrices:

AA Ambient Air
GS Soil Gas
GW/WG Groundwater
QW Water Quality
IA Indoor Air
SE Sediment
SO Soil

SSV Sub-slab Vapor

WQ Water Quality control matrix

WS Surface Water

Table Footnotes:

NA Not applicableND Non-detectNR Not reported

Common Symbols:

– % percent– < less than

– ≤ less than or equal to

- > greater than

- ≥ greater than or equal to

– = equal

C degrees Celsius
± plus or minus
~ approximately
x times (multiplier)



5. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of
amu	atomic mass unit	WISDEC	Environmental Conservation
ВРЈ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
ССВ	Continuing Calibration Blank	PDS	Post-Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
33.1	Low	PFBA	Perfluorbutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R^2	R-squared value
EMPC	Estimated Maximum Possible	Ra-226	Radium-226
	Concentration	Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass	RRF	Relative Response Factor
	Spectrometry	RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	Sampling Analysis Plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedure
ICB	Initial Calibration Blank	SPE	Solid-Phase Extraction
ICP/MS	Inductively Coupled Plasma/Mass	SVOC	Semi-Volatile Organic Compound
	Spectrometry	TCLP	Toxicity Characteristic Leaching
ICV	Initial Calibration Verification		Procedure
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory	TPU	Total Propagated Uncertainty
	Control Sample Duplicate	USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compound
MDC	Minimum Detectable Concentration	WP	Work Plan



6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

Concentration (C) Qualifiers:

- U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
- B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

Quantitation (Q) Qualifiers:

- E The compound was quantitated above the calibration range.
- D The concentration is based on a diluted sample analysis.

Validation Qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
- UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
- NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
- R The sample results were rejected as unusable; the compound may or may not be present in the sample.
- S Result is suspect. See DUSR for details.



References

- 1. Haley & Aldrich, Inc, 2023. Quality Assurance Project Plan. Remedial Investigation Work Plan. Former A&A Brake Service Site. NYSDEC BCP Site C224372. Brooklyn New York. March.
- 2. United States Environmental Protection Agency, 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June.





Data Usability Summary Report

Project Name: Sackett Street

Project Description: Soil and Groundwater Samples

Sample Date(s): 21 June through 25 June 2023

Analytical Laboratory: Alpha Analytical – Westborough, MA

Validation Performed by: Kirkland Broadwell
Validation Reviewed by: Katherine Miller

Validation Date: 3 August 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers
- 2. Precision and Accuracy
- 3. Explanations
- 4. Glossary
- 5. Abbreviations
- 6. Qualifiers

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- NFG for Organic Data Review.
- Data Validation Guidelines for Perfluoroalkyl Substances (PFAS) Analyzed Using USEPA Method 537.
- Sampling, Analysis, and Assessment of Per- and PFAS Under New York State Department of Environmental Conservation's (NYSDEC) Part 375 Remedial Programs.
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and therefore usable; any exceptions are noted in the following pages.



1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of the following SDG numbers:

- L2335535, dated 13 July 2023;
- L2335921, dated 14 July 2023;
- L2336234, dated 17 July 2023; and
- L2336505, dated 17 July 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

• SDG L2335535: The collection date and time on the COC and container label for L2335535-15 did not match. At the client's request, the collection date and time on the sample container was switched to the date and time listed on the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
SB-1_0-0.5	N	L2335535-01	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-1_1-2	N	L2335535-02	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-1_5-7	N	L2335535-03	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-1_10-12	N	L2335535-04	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-1_12-15	N	L2335535-05	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-2_0-0.5	N	L2335535-06	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-2_5-7	N	L2335535-07	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-2_12-14	N	L2335535-08	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-4_0-0.5	N	L2335535-09	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-4_5-7	N	L2335535-10	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-4_8-10	N	L2335535-11	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-4_12-14	N	L2335535-12	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-5_0-0.5	N	L2335535-13	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-5_5-7	N	L2335535-14	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-5_12-14	N	L2335535-15	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-6_0-0.5	N	L2335535-16	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-6_5-7	N	L2335535-17	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-6_10-12	N	L2335535-18	06/21/2023	SO	A, B, C, D, E, F, G, H
SB-6_12-14	N	L2335535-19	06/21/2023	SO	A, B, C, D, E, F, G, H



Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
DUP01_20230621	FD	L2335535-20	06/21/2023	SO	A, B, C, D, E, F, G, H
FB01_20230621	FB	L2335535-21	06/21/2023	WQ	A, B, C, G, H, I, J, K
TB01_20230621	ТВ	L2335535-22	06/21/2023	WQ	А
SB-7_0-0.5	Ν	L2335921-01	06/22/2023	SO	A, B, C, D, E, F, G, H
SB-7_1-2	N	L2335921-02	06/22/2023	SO	A, B, C, D, E, F, G, H
SB-7_5-7	Ν	L2335921-03	06/22/2023	SO	A, B, C, D, E, F, G, H
SB-7_9-11	N	L2335921-04	06/22/2023	SO	A, B, C, D, E, F, G, H
SB-7_12-14	Ν	L2335921-05	06/22/2023	SO	A, B, C, D, E, F, G, H
FB02_20230622	FB	L2335921-06	06/22/2023	W	A, B, C, G, H, I, J, K
TB02_20230622	ТВ	L2335921-07	06/22/2023	W	А
SB-8_0-0.5	Ν	L2336234-01	06/23/2023	SO	A, B, C, D, E, F, G, H
SB-8_1-2	N	L2336234-02	06/23/2023	SO	A, B, C, D, E, F, G, H
SB-8_5-7	Ν	L2336234-03	06/23/2023	SO	A, B, C, D, E, F, G, H
SB-8_9-11	N	L2336234-04	06/23/2023	SO	A, B, C, D, E, F, G, H
SB-8_12-14	N	L2336234-05	06/23/2023	SO	A, B, C, D, E, F, G, H
TB03_20230623	ТВ	L2336234-06	06/23/2023	WQ	A
SB-3_0-0.5	N	L2336505-01	06/25/2023	SO	A, B, C, D, E, F, G, H
SB-3_1-2	Ν	L2336505-02	06/25/2023	SO	A, B, C, D, E, F, G, H
SB-3_5-7	N	L2336505-03	06/25/2023	SO	A, B, C, D, E, F, G, H
SB-3_9-11	N	L2336505-04	06/25/2023	SO	A, B, C, D, E, F, G, H
SB-3_12-14	N	L2336505-05	06/25/2023	SO	A, B, C, D, E, F, G, H
DUP02_20230625	FD	L2336505-06	06/25/2023	SO	A, B, C, D, E, F, G, H
TB_20230625	ТВ	L2336505-07	06/25/2023	WQ	Α

	Method Holding Times							
A.	SW8260D	Volatile Organic Compounds (VOCs)	14 days					
B.	SW8270E	Semivolatile Organic Compounds (SVOCs)	14 days					
C.	E1633	PFAS	14 days extraction / 40 days analysis*					
D.	SW6010D	Metals (by Optical Emission Spectrometry)	180 days					
E.	SW7471B	Mercury (in Solids)	28 days extraction / 48 hours analysis					
F.	SM2540G	Total Solids	7 days					
G.	SW8081B	Organochlorine Pesticides	14 days					
Н.	SW8082A	Polychlorinated Biphenyl (PCBs)	14 days					
I.	SW8270ESIM	Polycyclic Aromatic Hydrocarbons (PAHs)	7 days extraction / 40 days analysis					
J.	SW6020B	Metals	180 days					
K.	SW7470A	Mercury (in Liquids)	28 days extraction / 48 hours analysis					
*Hold	*Holding time specified by NYSDEC Guidance.							



1.2 CASE NARRATIVE

The laboratory report case narrative lists various quality control exceedances (e.g., as internal standard exceedances) not evaluated by this review thus, no qualifiers were applied to the reported results.

1.3 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

Lab ID	Method	Analyte	Qualification
L2335535-01	SW8260D	All VOCs	The laboratory reanalyzed the sample due to a low internal standard response. As the reanalysis achieved similar results, the original results are marked reportable, and the reanalysis are marked nonreportable.
L2335535-09	SW8081B	4,4'- Dichlorodiphenyl- trichloroethane (4,4'-DDT)	The laboratory reanalyzed the sample at dilution due a calibration exceedance. The original results are marked nonreportable, and the reanalysis results are accepted.
L2335535-11	SW8260D	All VOCs	The laboratory analyzed the sample as a High-Level Methanol to quantitate results within the calibration range. The original results for n-Propylbenzene, 1,2,4,5-Tetramethylbenzene, and Isopropylbenzene are marked nonreportable, and the reanalysis results for these compounds are accepted. The original results for all of VOCs are marked nonreportable and the reanalysis results are accepted.
L2335535-14	SW8270E	All SVOCs	The laboratory reanalyzed the sample due to low surrogate recoveries. As the reanalysis achieved similar results, the original results are marked reportable, and the reanalysis are marked nonreportable.
L2335535-16	SW8270E	Pyrene and Fluoranthene	The laboratory reanalyzed the sample at dilution due a calibration exceedance. The original results are marked nonreportable, and the reanalysis results are accepted.
L2335535-18	SW8260D	1,2,4- Trimethylbenzene	The laboratory reanalyzed the sample at dilution due a calibration exceedance. The original results are marked nonreportable, and the reanalysis results are accepted.
L2335921-06	SW8270ESIM	All PAHs	The laboratory reanalyzed the sample due to low LCSD recoveries. As the reanalysis were reextracted outside of hold time, the original results are marked reportable, and the reanalysis are marked nonreportable.
L2335921-02	SW8270E	All PAHs	The laboratory reanalyzed the sample due to low surrogate recoveries. As the reanalysis achieved similar results, the original results are marked reportable, and the reanalysis are marked nonreportable.

1.4 HOLDING TIMES/PRESERVATION



The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.5 REPORTING LIMITS AND SAMPLE DILUTIONS

The MDLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific QAPP.

1.6 REPORTING BASIS (WET/DRY)

Refer to Section E 1.1. Soil data in this SDG were reported on a dry weight basis.

Where reported, percent solid results were reviewed and found to be within limits.

1.7 SURROGATE RECOVERY COMPLIANCE

<u>Refer to Section E 1.2.</u> The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control (QC) limits, with the following exceptions:

Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
SW8260D	SB-1_5-7'	L2335535-03	4-bromofluorobenzene	1x	142%	J+/None target compounds*
SW8260D	SB-5_5-7'	L2335535-14	Dibromofluoromethane	1x	63%	J-/UJ target compounds**
SW8270E	SB-5_5-7'	L2335535-14	2-fluorophenol	1x	4%	J-/R target compounds***
SW8270E	SB-5_5-7'	L2335535-14	2,4,6-tribromophenol	1x	1%	J-/R target compounds****
SW8081B	SB-4_8-10'	L2335535-11	2,4,5,6-tetrachloro-m- xylene	1x	5%	J-/R target compounds*****
SW8081B	SB-4_8-10'	L2335535-11	Decachlorobiphenyl	1x	4%	J-/R target compounds*****
SW8270E	SB-7_1-2	L2335921-02	2,4,6-tribromophenol	1x	3%	J-/R target compounds****
SW8081B	SB-3_12'-14'	L2336505-05	2,4,5,6-tetrachloro-m- xylene	1x	2670%	None, target compounds are ND
SW8270E	SB-2_0-0.5	L2335535-06	2-Fluorophenol	1x	22%	J-/UJ target compounds***
SW8270E	SB-5_0-0.5′	L2335535-13	2-Fluorophenol	1x	22%	J-/UJ target compounds***
SW8081B	SB-1_5-7'	L2335535-03	Decachlorobiphenyl	1x	357%	J+/None target compounds****

^{*} Compounds targeted by 4-bromofluorobenzene: 1,1,2,2,-tetrachloroethane, 1,2,3-trichlorobenzene, 1,2,3-trichloropropane, 1,2,4,5-tetramethylbenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, 1,3,5-Trichlorobenzene, 1,3,5-trimethybenzene, 1,3-dichlorobenzene, 1,4-dichloro-2-butane, 1,4-



Method Sample ID Lab ID Surrogate Dilution %R Qualific	Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
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dichlorobenzene, 1,4-Dichlorobenzene-d4, 2-chlorotoluene, 4-chorotoluene, 4-ethyltoluene, Bromobenzene, Bromoform, Cyclohexanone, Hexachlorobutadiene, Isopropylbenzene, Naphthalene, n-butylbenzene, n-propylbenzene, p-diethylbenzene, Pentachloroethane, p-isopropyltoluene, sec-butylbenzene, tert-butylbenzene, and trans-1,4-dichloro-2-butene.

- ** Compounds targeted by Dibromofluoromethane: Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, Ethyl Ether, Freon 113, Acrolein, Acetone, Ethanol, 1,1,-dichloroethene, Tert-Butyl Alcohol, Methyl Acetate, Carbon Disulfide, Methylene Chloride, Acrylonitrile, Methyl Tert Butyl Ether, Halothane, Trans-1,2-dichloroethene, Diisopropyl Ether, Vinyl Acetate, 1,1-dichloroethane, Ethyl-Tert-Butyl-Ether, 2-butanone, 2,2-dichloropropane, Cis-1,2-dichloroethene, Chloroform, Bromochloromethane, Tetrahydrofuran, 1,1,1-trichloroethane, Cyclohexane, 1,1-dichloropropene, Carbon Tetrachloride, Tertiary-Amyl Methyl Ether, 1,2-dichloroethane, Benzene, Trichloroethene, Methyl Cyclohexane, 1,2-dichloropropane, Bromodichloromethane, 1,4-Dioxane, Dibromomethane, 2-Chloroethylvinyl Ether, 4-methyl-2-pentanone, Cis-1,3-dichloropropene, Iodomethane, Methyl methacrylate, n-Butanol, Ethyl acetate, and Isopropyl Alcohol (IPA).
- *** Compounds targeted by 2-Fluorophenol: n-Nitrosodimethylamine, 2-Picoline, Methyl methanesulfonate, Ethyl methanesulfonate, Phenol, Aniline, Bis(2-chloroethyl)ether, 2-Chlorophenol, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzyl chloride, Benzyl Alcohol, 1,2-Dichlorobenzene, 2-Methylphenol, and bis(2-Chloroisopropyl)ether.
- **** Compounds targeted by 2,4,6-tribromophenol: Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-Butylphthalate, Isodrin, Fluoranthene, Benzidine, Pyrene, and Benzyl butyl phthalate.
- ***** Compounds targeted by 2,4,5,6-tetrachloro-m-xylene and Decachlorobiphenyl: Heptachlor epoxide

 Endosulfan sulfate, Aldrin, alpha-BHC, beta-BHC, delta-BHC, Endosulfan II, 4,4'-DDT, alpha-Chlordane (cis), gamma-Chlordane
 (trans), Endrin ketone, Chlordane, gamma-BHC (Lindane), Dieldrin, Endrin, Methoxychlor, 4,4'-DDD, 4,4'-DDE, Endrin aldehyde,
 Heptachlor, Toxaphene, and Endosulfan I.

1.8 LABORATORY CONTROL SAMPLES

<u>Refer to Section E 1.3</u>. Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits with the exceptions shown in the attached Table 1.

1.9 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The samples below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method
L2335921-01	SB-7_0-0.5'	SW6010D, SW7471B
L2336234-05	SB-8_12-14'	SW8260D, SW8270E, E1633, SW8082A, SW8081A, SW6010D, SW7471B
L2336505-01	SB-3_0-0.5'	SW6010D, SW7471B
L2335535-10	SB-4_5-7'	SW8260D, SW8270E, E1633, SW8082A, SW8081A, SW6010D, SW7471B

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions shown in the attached Table 2.



1.10 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

Blank Type	Batch ID	Analyte Detected in Blank	Concentration	Qualifier	Affected Samples
Method Blank	WG1797828	Sodium	1.33 J milligrams per kilogram (mg/kg)	NA	None, samples are >10x blank
Method Blank	WG1797378	Iron	0.607 J mg/kg	NA	None, samples are >10x blank
Method Blank	WG1797378	Sodium	1.39 J mg/kg	NA	None, samples are >10x blank
Method Blank	WG1795792	Pentachlorophenol	0.06 J micrograms per kilogram (μg/kg)	NA	None, sample is non-detect (ND)
Method Blank	WG1797144	Sodium	4.08 J mg/kg	NA	None, samples are >10x blank
Method Blank	WG1797250	Mercury	0.00011 J mg/kg	RL U	L2335535-21
Method Blank	WG1796156	Acenaphthene	0.03 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Fluoranthene	0.03 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Benzo(k)fluoranthene	0.01 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Acenaphthylene	0.03 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Anthracene	0.03 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Fluorene	0.04 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Phenanthrene	0.05 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Pyrene	0.02 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	2-Methylnaphthalene	0.07 J μg /kg	NA	None, sample is ND
Method Blank	WG1796156	Naphthalene	0.07 J μg /kg	NA	None, sample is ND
Method Blank	WG1797367	Sodium	2.80 J mg/kg	NA	None, samples are >10x blank

Instrument blank samples had no detections, indicating that no contamination occurred during analysis.



The analysis of the blank samples for field quality control was free of target compounds, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration	Qualifier	Affected Samples	
Field Blank	06/21/2023	Barium	0.00044 J milligrams per liter (mg/L)	NA	None, samples are >10x blank	
Field Blank	06/21/2023	Mercury	0.00011 U mg/L*	NA	None	
Field Blank	06/22/2023	Manganese	0.00964 J mg/L	NA	None, samples are >10x blank	
Field Blank	06/22/2023	Barium	0.0005 mg/L	NA	None, samples are >10x blank	
Field Blank	06/22/2023	Phenol	1.3 micrograms per liter (μg/L)	NA	None, samples are ND	
* Qualified ND	* Qualified ND based on method blank contamination.					

1.11 DUPLICATE SAMPLE ANALYSIS

<u>Refer to Section E 1.6.</u> The following samples were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
L2336505-01	SB-3_0'-0.5'	SW6010D, SW7471B
L2336234-05	SB-8_12-14'	SM2540G
L2335535-10	SB-4_5-7'	SM2540G
L2335921-01	SB-7_0-0.5'	SW6010D, SW7471B

Lab Sample Number	Laboratory Duplicate Sample Client ID	Analyte	% RPD	Qualification
L2336505-01	SB-3_0'-0.5'	Calcium	43%	J/UJ, RPD > 20%
L2336505-01	SB-3_0'-0.5'	Chromium	33%	J/UJ, RPD > 20%
L2336505-01	SB-3_0'-0.5'	Cobalt	27%	J/UJ, RPD > 20%
L2336505-01	SB-3_0'-0.5'	Sodium	21%	J/UJ, RPD > 20%
L2336505-01	SB-3_0'-0.5'	Zinc	26%	J/UJ, RPD > 20%
L2336505-01	SB-3_0'-0.5'	Mercury	147%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Arsenic	32%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Barium	23%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Calcium	81%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Chromium	41%	J/UJ, RPD > 20%



Lab Sample Number	Laboratory Duplicate Sample Client ID	Analyte	% RPD	Qualification
L2335921-01	SB-7_0-0.5'	Copper	108%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Sodium	81%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Mercury	21%	J/UJ, RPD > 20%
L2335921-01	SB-7_0-0.5'	Nickel	41%	J/UJ, RPD > 20%

The following samples were used for field duplicate analysis. RPDs were all below 50 percent for soil/sediment (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Methods
SB-3_5-7	DUP02_20230625	E1633, SM2540G, SW6010D, SW7471B, SW8081B, SW8082A, SW8260D, SW8270E
SB-5_5-7	DUP01_20230621	E1633, SM2540G, SW6010D, SW7471B, SW8081B, SW8082A, SW8260D, SW8270E

Field Duplicate RPD Calculations:

Method	•		Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
			SB-3_5-7	DUP02_20230625		
SW8270E	Anthracene	μg/kg	460	150	NA	J/UJ, Abs. Diff. > RL
SW8270E	Benzo(a)pyrene	μg/kg	1,500	710	NA	J/UJ, Abs. Diff. > RL
SW8270E	Benzo(g,h,i)perylene	μg/kg	920	450	NA	J/UJ, Abs. Diff. > RL
SW8270E	Benzo(k)fluoranthene	μg/kg	470	250	NA	J/UJ, Abs. Diff. > RL
SW8270E	Carbazole	μg/kg	340	71	NA	J/UJ, Abs. Diff. > RL
SW8270E	Dibenzofuran	μg/kg	260	39	NA	J/UJ, Abs. Diff. > RL
SW8270E	Indeno(1,2,3-cd)pyrene	μg/kg	1,000	490	NA	J/UJ, Abs. Diff. > RL
SW8270E	Naphthalene	μg/kg	560	65	NA	J/UJ, Abs. Diff. > RL
SW6010D	Selenium	mg/kg	4.67	2.07	NA	J/UJ, Abs. Diff. > RL
SW6010D	Barium	mg/kg	481	276	54	J/UJ, RPD>50
SW8270E	Benzo(a)anthracene	μg/kg	1,400	660	72	J/UJ, RPD>50
SW8270E	Benzo(b)fluoranthene	μg/kg	1,800	850	72	J/UJ, RPD>50
SW8270E	Chrysene	μg/kg	1,600	720	76	J/UJ, RPD>50



Method	Analyte	Units Primary Duplicate Sample ID Sample ID		•	% RPD	Qualification
			SB-3_5-7	DUP02_20230625		
SW6010D	Copper	mg/kg	218	101	73	J/UJ, RPD>50
SW8270E	Fluoranthene	μg/kg	3,300	1,300	87	J/UJ, RPD>50
SW6010D	Iron	mg/kg	22,000	38,800	55	J/UJ, RPD>50
SW6010D	Manganese	mg/kg	423	216	65	J/UJ, RPD>50
SW8270E	Phenanthrene	μg/kg	3,000	820	114	J/UJ, RPD>50
SW8270E	Pyrene	μg/kg	2,900	1,200	83	J/UJ, RPD>50

1.12 CONFIRMATION COLUMN REVIEW

Refer to Section E 1.8. All RPDs were within control limits, with the following exceptions:

Method	Analyte	Sample RPI		Action
SW8081B	gamma- Chlordane (trans)	L2335535-13	> 40%	Qualify data estimated J/UJ.
SW8081B	4,4'-DDD	L2335535-13	> 40%	Qualify data estimated J/UJ.
SW8081B	gamma- Chlordane (trans)	L2335535-14	> 40%	Qualify data estimated J/UJ.
SW8081B	4,4'-DDD	L2335535-14	> 40%	Qualify data estimated J/UJ.
SW8081B	4,4'-DDE	L2335535-01	> 40%	Qualify data estimated J/UJ.
SW8081B	gamma- Chlordane (trans)	L2335535-02	> 40%	Qualify data estimated J/UJ.
SW8081B	alpha-Chlordane (cis)	L2335535-03	> 40%	Qualify data estimated J/UJ.
SW8081B	4,4'-DDE	L2335535-03	> 40%	Qualify data estimated J/UJ.
SW8081B	gamma- Chlordane (trans)	L2335535-09	> 40%	Qualify data estimated J/UJ.
SW8081B	gamma- Chlordane (trans)	L2335921-03	> 40%	Qualify data estimated J/UJ.
SW8081B	4,4'-DDT	L2335921-03	> 40%	Qualify data estimated J/UJ.
SW8081B	alpha-Chlordane (cis)	L2335921-03	> 40%	Qualify data estimated J/UJ.

1.13 PFAS SAMPLE PREPARATION

<u>Refer to Section E 1.14.</u> The laboratory's SOP was reviewed, and the reviewer confirmed it is the laboratory's procedure to use solid-phase extraction (SPE) for sample preparation.



1.14 PFAS IDENTIFICATION

<u>Refer to Section E 1.15.</u> Ion ratios were reviewed and were within the laboratory specified limits, with the following exceptions:

Sample ID	Analyte	Qualifier	Affected Samples
SB-2_5-7	Perfluorobutanesulfonic acid (PFBS)	J	L2335535-07
SB-4_0-0.5	PFBS	J	L2335535-09
SB-4_0-0.5	Perfluorononanoic acid (PFNA)	J	L2335535-09
SB-3_1-2	PFBS	J	L2336505-02
SB-6_0-0.5	PFBS	J	L2335535-16

The laboratory's SOP was reviewed, and the reviewer confirmed that, when applicable, the laboratory's procedure is to sum the branched and linear peaks.

1.15 EXTRACTION INTERNAL STANDARDS

<u>Refer to Section E 1.16.</u> Recoveries were reviewed and found to be within the limits of 50 to 150 percent of the initial calibration midpoint standard/initial continuing calibration verification, with the following exceptions:

Sample ID	Lab ID or Batch ID	Standard Name	%Recovery	Qualifier	Affected Samples
SB-3_12'-14'	L2336505-05	13C2-8:2FTS	156%	J/UJ 8:2FTS	SB-3_12'-14'
SB-1_1-2'	L2335535-02	13C2-8:2FTS	176%	J/UJ 8:2FTS	SB-1_1-2'
SB-2_5-7'	L2335535-07	13C2-8:2FTS	163%	J/UJ 8:2FTS	SB-2_5-7'
SB-4_0-0.5'	L2335535-09	13C2-8:2FTS	220%	J/UJ 8:2FTS	SB-4_0-0.5'

1.16 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data were rejected, except for rejected data noted below. A summary of qualifiers applied to this data set is shown in the attached Table 3.



2. Precision and Accuracy

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.



3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry
 weight data indicate calculations were made to compensate for the moisture content of
 the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
 - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Analysis of PFAS compliant with QSM 5.3 Table B-15 requires instrument blanks that are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess contamination that could occur in the LC/MS/MS instrument.
 - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the
 analysis to demonstrate acceptable method precision. The RPD or absolute difference
 was evaluated for each duplicate sample pair to monitor the reproducibility of the data.



 The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

E 1.7 Precision and Accuracy

- Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike, MS, and/or surrogate recoveries.

E 1.8 Confirmation Column Review

 When analyzing for pesticides and PCBs, compound identification based on singlecolumn analysis should be confirmed on a second column or supported by at least one other qualitative technique. When confirmed on a second column, the RPD should not exceed 40 percent.

• E 1.14 PFAS Sample Preparation

Analysis of PFAS requires specific sample preparation. Aqueous samples must be prepared using SPE, unless samples are known to contain high PFAS concentrations or the samples are injected directly into the LC/MS/MS instrument. Samples with greater than 1 percent solids may require centrifugation prior to SPE. The entire sample plus bottle rinsate must be extracted using SPE. If high PFAS concentrations are known, the samples may alternately be prepared using serial dilution performed in duplicate. If prepared by serial dilution, there must be documented project approval for this deviation.

E 1.15 PFAS Identification

- Identification of PFAS requires dual confirmation. The chemical derivation of the ion transitions must be documented. A minimum of two ion transitions per analyte are required (except for PFBA and PFPeA). Ratios of the quantitation ion to the confirmation ion should be calculated for samples and be within 50 to 150 percent of the ratios of the quantitation ion to the confirmation ion for standards.
- Identification of PFAS also requires the proper assessment of branched and linear peaks.
 Standards for both isomers are not currently available for every PFAS compound,
 resulting in the common error of quantifying the area of only the branched or the linear isomers, which results in erroneous concentrations.

E 1.16 Extraction Internal Standards

 Analysis of PFAS by isotope dilution includes the use of extracted internal standards, which are stable isotope analogs of the PFAS compounds of interest added to each sample prior to extraction of the sample matrix. Matrix interferences that affect the quantification of the internal standard will affect the calculated target compound concentrations.



4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

Sample Types:

EB Equipment Blank Sample
FB Field Blank Sample
FD Field Duplicate Sample
N Primary Sample
TB Trip Blank Sample

Units:

μg/kg micrograms per kilogram
 μg/L micrograms per liter
 μg/m³ micrograms per cubic meter

mg/kg milligrams per kilogrammg/L milligrams per liter

ppb v/v parts per billion volume/volume

pCi/L picocuries per literpg/g picograms per gram

Matrices:

AA Ambient Air
GS Soil Gas
GW/WG Groundwater
QW Water Quality
IA Indoor Air
SE Sediment
SO Soil

SSV Sub-slab Vapor

WQ Water Quality control matrix

WS Surface Water

Table Footnotes:

NA Not applicableND Non-detectNR Not reported

Common Symbols:

– % percent– < less than

– ≤ less than or equal to

- > greater than

- ≥ greater than or equal to

– = equal

°C degrees Celsius
± plus or minus
~ approximately
x times (multiplier)



5. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of
amu	atomic mass unit	WISDEC	Environmental Conservation
BPJ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
CCB	Continuing Calibration Blank	PDS	Post-Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
CCVL	Low	PFBA	Perfluorbutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM R ²	Quality Systems Manual
EIS	Extraction Internal Standard		R-squared value
EMPC	Estimated Maximum Possible	Ra-226	Radium-226
ED!/	Concentration	Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass	RRF	Relative Response Factor
	Spectrometry	RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	Sampling Analysis Plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedure
ICB	Initial Calibration Blank	SPE	Solid-Phase Extraction
ICP/MS	Inductively Coupled Plasma/Mass	SVOC	Semi-Volatile Organic Compound
	Spectrometry	TCLP	Toxicity Characteristic Leaching
ICV	Initial Calibration Verification		Procedure
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory	TPU	Total Propagated Uncertainty
	Control Sample Duplicate	USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compound
MDC	Minimum Detectable Concentration	WP	Work Plan



6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

Concentration (C) Qualifiers:

- U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
- B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

Quantitation (Q) Qualifiers:

- E The compound was quantitated above the calibration range.
- D The concentration is based on a diluted sample analysis.

Validation Qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
- UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
- NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
- R The sample results were rejected as unusable; the compound may or may not be present in the sample.
- S Result is suspect. See DUSR for details.



References

- 1. Haley & Aldrich, Inc, 2023. Quality Assurance Project Plan. Remedial Investigation Work Plan. Former A&A Brake Service Site. NYSDEC BCP Site C224372. Brooklyn New York. March.
- 2. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
- 3. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.
- United States Environmental Protection Agency, 2018. Data Review and Validation Guidelines for Perfluroalkyl Substances (PFASs) Analyzed Using EPA Method 537. EPA 910-R-18-001. November.
- 5. New York State Department of Environmental Conservation (NYSDEC), 2021. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances Under NYSDEC's Part 375 Remedial Programs. January.



TABLES

LABORATORY CONTROL SAMPLE SUMMARY

FORMER A&A BRAKE SERVICE SITE BROOKLYN, NEW YORK

SDG Sample Type Method Batch ID Analyte %R/RPD Qualifier **Affected Samples** L2335921 LCS/LCSD SW8260D WG1796699 RPD = 35% Bromomethane J/None None, samples are ND L2335921 LCS/LCSD SW8260D WG1797432 Vinyl chloride 64%/61% J/UJ L2335921-01 through -04 L2335921 LCS/LCSD SW8270E WG1796155 Bis(2-ethylhexyl)phthalate 406%/RPD = 141 J/None None, sample is ND SW8270ESIM J/UJ L2335921-06 L2335921 LCSD WG1786156 Acenaphthene 36% L2335921 LCSD SW8270ESIM WG1786156 2-Chloronaphthalene 37% J/UJ L2335921-06 L2335921 LCSD SW8270ESIM WG1786156 Hexachlorobutadiene 36% J/UJ L2335921-06 LCSD SW8270ESIM 33% J/UJ L2335921-06 L2335921 WG1786156 Naphthalene LCSD SW8270ESIM WG1786156 39% J/UJ L2335921-06 L2335921 Chrysene L2335921 LCSD SW8270ESIM WG1786156 J/UJ L2335921-06 Fluorene 39% L2335921 LCSD SW8270ESIM WG1786156 Phenanthrene 37% J/UJ L2335921-06 L2335921 LCSD SW8270ESIM WG1786156 2-Methylnaphthalene 36% J/UJ L2335921-06 L2335921 LCSD SW8270ESIM WG1786156 Hexachloroethane 34% J/UJ L2335921-06 LCSD SW8270ESIM WG1797492 Pentachlorophenol 112% J/None L2335921-01 and -02 L2335921 L2335921 LCSD SW8270ESIM WG1797492 Phenol 94% J/None L2335921-01 and -02 LCS/LCSD 64%/61% L2336505 SW8260D WG1797432 Vinyl Chloride J/UJ L2336505-01, -03 though -06 L2336505 LCS/LCSD Trichlorofluoromethane 55%/56% J/UJ L2336505-02 SW8260D WG1798869 L2336505 LCS/LCSD SW8260D WG1798869 Bromomethane 55%/56% J/UJ L2336505-02 LCS/LCSD SW8260D WG1798869 52%/55% J/UJ L2336505-02 L2336505 Vinyl Acetate L2336505 LCS J/UJ L2336505-02 SW8260D WG1798869 Ethyl Ether 66% L2336505 LCS/LCSD SW8270E WG1796586 Hexachlorocyclopentadiene 31%/29% J/UJ L2336505-02 through -06 L2336505 LCS/LCSD SW8270E WG1798291 Hexachlorocyclopentadiene 20%/27% J/UJ L2336505-01 Chloromethane L2335535 LCS/LCSD SW8260D WG1797124 and WG1797130 140%/151% J/None None, samples are ND LCS/LCSD SW8260D WG1797124 and WG1797130 Vinyl Chloride 145%/149% J/None L2335535-01, -02, -05, -07 through -10, -12 through -17, -18 through -20 L2335535 LCS/LCSD 152%/151% L2335535 SW8260D WG1797124 and WG1797130 Dichlorodifluoromethane J/None L2335535-01, -02, -05, -07 through -10, -12 through -17, -18 through -20 L2335535 LCSD SW8260D WG1797124 and WG1797130 Acetone 143% J/None L2335535-01, -02, -05, -07 through -10, -12 through -17, -18 through -20 L2335535 SW8260D WG1797128 and WG17977333 LCS 2-Hexanone 65% J/UJ L2335535-01, -03, -04, -06, -11 and -18 LCS 60% J/UJ L2335535 SW8260D WG1797128 and WG17977333 1,4-Dioxane L2335535-01, -03, -04, -06, -11 and -18 L2335535 LCS/LCSD SW8270E WG1795079 Hexachlorocyclopentadiene 39%/38% J/UJ L2335535-01 through -06, -08 through -20 LCS WG1795079 L2335535 SW8270E Phenol 92% J/None None, samples are ND

34%/RPD = 32

J/UJ

Notes:

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

WG1795790

LCS/LCSD = laboratory control sample/laboratory control sample duplicate

SW8270E

ND = non-detect

L2335535

%R = percent recovery

RPD = relative percent difference

LCS

SDG = sample delivery group

UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

4-Chloroaniline

L2335535-21

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

FORMER A&A BRAKE SERVICE SITE BROOKLYN, NEW YORK

SDG	Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
L2335921	MS	SW6010D	SB-7_0-0.5'	Aluminum	502%	NA	None, native sample > 4x the spike added
L2335921	MS	SW6010D	SB-7_0-0.5'	Calcium	0%	NA	None, native sample > 4x the spike added
L2335921	MS	SW6010D	SB-7_0-0.5'	Chromium	35%	J/UJ	All samples in SDG
L2335921	MS	SW6010D	SB-7_0-0.5'	Copper	0%	NA	None, native sample > 4x the spike added
L2335921	MS	SW6010D	SB-7_0-0.5'	Iron	2150%	NA	None, native sample > 4x the spike added
L2335921	MS	SW6010D	SB-7_0-0.5'	Lead	217%	J/None	All samples in SDG
L2335921	MS	SW6010D	SB-7_0-0.5'	Manganese	294%	NA	None, native sample > 4x the spike added
L2335921	MS	SW6010D	SB-7_0-0.5'	Sodium	54%	J/UJ	All samples in SDG
L2335921	MS	SW6010D	SB-7_0-0.5'	Nickel	34%	J/UJ	All samples in SDG
L2335921	MS	SW7471B	SB-7_0-0.5'	Mercury	152%	J+/None	All samples in SDG
L2336234	MS/MSD	SW8260D	SB-8_12-14'	Tetrachloroethene	60%/61%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	Chlorobenzene	65%/68%	J/UJ	L2336234-05
L2336234	MS	SW8260D	SB-8_12-14'	Ethylbenzene	66%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,2-Dichlorobenzene	59%/60%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,3-Dichlorobenzene	54%/54%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,4-Dichlorobenzene	53%/53%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	m,p-Xylene	61%/64%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	o-Xylene	65%/69%	J/UJ	L2336234-05
L2336234	MS	SW8260D	SB-8_12-14'	Dibromomethane	69%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	Styrene	64%/68%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	Vinyl Acetate	36%/33%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	Bromobenzene	62%/64%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	n-Butylbenzene	47%/45%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	sec-Butylbenzene	57%/58%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	tert-Butylbenzene	61%/63%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	o-Chlorotoluene	61%/64%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	p-Chlorotoluene	58%/60%	J/UJ	L2336234-05
L2336234	MS	SW8260D	SB-8_12-14'	1,2-Dibromo-3-chloropropane	66%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	Hexachlorobutadiene	35%/32%	J/UJ	L2336234-05
L2336234	MS	SW8260D	SB-8_12-14'	Isopropylbenzene	64%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	p-Isopropyltoluene	52%/52%	J/UJ	L2336234-05
L2336234	MS	SW8260D	SB-8_12-14'	Naphthalene	62%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	n-Propylbenzene	59%/61%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,2,3-Trichlorobenzene	42%/45%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,2,4-Trichlorobenzene	43%/45%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,3,5-Trimethylbenzene	60%/62%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,2,4-Trimethylbenzene	59%/60%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	p-Diethylbenzene	47%/47%	J/UJ	L2336234-05

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

FORMER A&A BRAKE SERVICE SITE BROOKLYN, NEW YORK

SDG	Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
L2336234	MS/MSD	SW8260D	SB-8_12-14'	p-Ethyltoluene	56%/58%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8260D	SB-8_12-14'	1,2,4,5-Tetramethylbenzene	52%/54%	J/UJ	L2336234-05
L2336234	MS/MSD	SW8270E	SB-8_12-14'	Hexachlorocyclopentadiene	0%/12%	J/R	L2336234-05
L2336234	MS/MSD	SW8270E	SB-8_12-14'	2,4-Dinitrophenol	0%/0%	J/R	L2336234-05
L2336234	MS	SW8270E	SB-8_12-14'	4,6-Dinitro-o-cresol	9%	J/R	L2336234-05
L2336234	MS/MSD	SW8270E	SB-8_12-14'	Benzoic Acid	0%/0%	J/R	L2336234-05
L2336234	MS/MSD	SW6010D	SB-8_12-14'	Aluminum	477%/358%	NA	None, native sample > 4x the spike added
L2336234	MS	SW6010D	SB-8_12-14'	Antimony	73%	J/UJ	All samples in SDG
L2336234	MSD	SW6010D	SB-8_12-14'	Calcium	126%	J/None	All samples in SDG
L2336234	MS/MSD	SW6010D	SB-8_12-14'	Iron	1150%/805%	NA	None, native sample > 4x the spike added
L2336234	MS	SW6010D	SB-8_12-14'	Magnesium	126%	J/None	All samples in SDG
L2336234	MS	SW6010D	SB-8_12-14'	Manganese	203%/RPD = 24	J/None	All samples in SDG
L2336505	MS	SW6010D	SB-3_0'-0.5'	Aluminum	309%	NA	None, native sample > 4x the spike added
L2336505	MS	SW6010D	SB-3_0'-0.5'	Barium	74%	J/UJ	All samples in SDG
L2336505	MS	SW6010D	SB-3_0'-0.5'	Calcium	501%	NA	None, native sample > 4x the spike added
L2336505	MS	SW6010D	SB-3_0'-0.5'	Iron	933%	NA	None, native sample > 4x the spike added
L2336505	MS	SW6010D	SB-3_0'-0.5'	Lead	0%	NA	None, native sample > 4x the spike added
L2336505	MS	SW6010D	SB-3_0'-0.5'	Magnesium	185%	NA	None, native sample > 4x the spike added
L2336505	MS	SW6010D	SB-3_0'-0.5'	Manganese	40%	NA	None, native sample > 4x the spike added
L2336505	MS	SW6010D	SB-3_0'-0.5'	Zinc	16%	NA	None, native sample > 4x the spike added
L2336505	MS	SW7471B	SB-3_0'-0.5'	Mercury	0%	NA	None, native sample > 4x the spike added
L2335535	MS	SW8260D	SB-4_5-7'	Bromoform	66%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,1,2,2-Tetrachloroethane	58%/64%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Chloromethane	148%/155%	J/None	None, samples are ND
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Vinyl Chloride	149%/157%	J/None	None, samples are ND
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2-Dichlorobenzene	48%/52%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,3-Dichlorobenzene	49%/54%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,4-Dichlorobenzene	48%/52%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Dichlorodifluoromethane	161%/165%	J/None	None, samples are ND
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Vinyl Acetate	25%/24%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2,3-Trichloropropane	60%/65%	J/UJ	L2335535-10
L2335535	MS	SW8260D	SB-4_5-7'	1,2-Dibromoethane	68%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Bromobenzene	58%/62%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	n-Butylbenzene	48%/49%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	sec-Butylbenzene	57%/58%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	tert-Butylbenzene	62%/64%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	o-Chlorotoluene	59%/62%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	p-Chlorotoluene	54%/58%	J/UJ	L2335535-10

MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

FORMER A&A BRAKE SERVICE SITE

BROOKLYN, NEW YORK

SDG	Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2-Dibromo-3-chloropropane	59%/65%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Hexachlorobutadiene	38%/39%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Isopropylbenzene	65%/68%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	p-Isopropyltoluene	55%/56%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	Naphthalene	32%/36%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	n-Propylbenzene	61%/62%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2,3-Trichlorobenzene	27%/32%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2,4-Trichlorobenzene	30%/35%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,3,5-Trimethylbenzene	63%/66%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2,4-Trimethylbenzene	59%/62%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	p-Diethylbenzene	51%/53%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	p-Ethyltoluene	60%/62%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	1,2,4,5-Tetramethylbenzene	44%/49%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8260D	SB-4_5-7'	trans-1,4-Dichloro-2-butene	63%/69%	J/UJ	L2335535-10
L2335535	MS/MSD	SW8270E	SB-4_5-7'	Hexachlorocyclopentadiene	0%/12%	J/R	L2335535-10
L2335535	MS/MSD	SW8270E	SB-4_5-7'	2,4-Dinitrophenol	0%/0%	J/R	L2335535-10
L2335535	MS/MSD	SW8270E	SB-4_5-7'	4,6-Dinitro-o-cresol	0%/9%	J/R	L2335535-10
L2335535	MS/MSD	SW8270E	SB-4_5-7'	Benzoic Acid	0%/0%	J/R	L2335535-10
L2335535	MS/MSD	SW6010D	SB-4_5-7'	Aluminum	690%/911%	NA	None, native sample > 4x the spike added
L2335535	MS/MSD	SW6010D	SB-4_5-7'	Antimony	61%/57%	J/UJ	All samples in SDG
L2335535	MS/MSD	SW6010D	SB-4_5-7'	Calcium	0%/33%	J/UJ	All samples in SDG
L2335535	MS/MSD	SW6010D	SB-4_5-7'	Iron	0%/1050%	NA	None, native sample > 4x the spike added
L2335535	MSD	SW6010D	SB-4_5-7'	Lead	71%	J/UJ	All samples in SDG
L2335535	MS	SW6010D	SB-4_5-7'	Magnesium	136%	J/None	All samples in SDG
L2335535	MS/MSD	SW6010D	SB-4_5-7'	Zinc	58%/55%	J/UJ	All samples in SDG

Notes:

 $J = The\ compound\ was\ positively\ identified;\ however,\ the\ associated\ numerical\ value\ is\ an\ estimated\ concentration\ only.$

J+ = The result is an estimated quantity, but the result may be biased high.

MS/MSD = matrix spike/matrix spike duplicate

NA = not analyzed

ND = non-detect

%R = percent recovery

R = The sample results were rejected as unusable; the compound may or may not be present in the sample.

RPD = relative percent difference

SDG = sample delivery group

UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

TABLE 3
SYSTEM PERFORMANCE SUMMARY
FORMER A&A BRAKE SERVICE SITE
BROOKLYN, NEW YORK

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable	Reported	Validated	Reason for
			•				Result	Result	Result	Qualifier
L2336505	SW6010D	NA	SB-3_0-0.5	L2336505-01	Calcium	N	Yes	26,600	26,600 J	DUP
L2336505	SW6010D	NA	SB-3_0-0.5	L2336505-01	Chromium	N	Yes	17.3	17.3 J	DUP
L2336505	SW6010D	NA	SB-3_0-0.5	L2336505-01	Cobalt	N	Yes	6.1	6.1 J	DUP
L2336505	SW6010D	NA	SB-3_0-0.5	L2336505-01	Sodium	N	Yes	363	363 J	DUP
L2336505	SW6010D	NA	SB-3_0-0.5	L2336505-01	Zinc	N	Yes	305	305 J	DUP
L2336505	SW7471B	NA	SB-3_0-0.5	L2336505-01	Mercury	N	Yes	7.94	7.94 J	DUP
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Arsenic	N	Yes	6.43	6.43 J	DUP
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Barium	N	Yes	108	108 J	DUP
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Calcium	N	Yes	30,400	30,400 J	DUP
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Copper	N	Yes	242	242 J	DUP
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Chromium	N	Yes	38	38 J	DUP, MSD
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Nickel	N	Yes	62.5	62.5 J	DUP, MSD
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Sodium	N	Yes	680	680 J	DUP, MSD
L2335921	SW7471B	NA	SB-7_0-0.5	L2335921-01	Mercury	N	Yes	0.645	0.645 J+	DUP, MSD
L2336505	SW6010D	NA	DUP02_20230625	L2336505-06	Copper	N	Yes	101	101 J	FDP
L2336505	SW6010D	NA	DUP02_20230625	L2336505-06	Iron	N	Yes	38,800	38,800 J	FDP
L2336505	SW6010D	NA	DUP02_20230625	L2336505-06	Manganese	N	Yes	216	216 J	FDP
L2336505	SW6010D	NA	DUP02_20230625	L2336505-06	Selenium	N	Yes	2.07	2.07 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Anthracene	N	Yes	150	150 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Benzo(a)anthracene	N	Yes	660	660 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Benzo(a)pyrene	N	Yes	710	710 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Benzo(b)fluoranthene	N	Yes	850	850 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Benzo(g,h,i)perylene	N	Yes	450	450 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Benzo(k)fluoranthene	N	Yes	250	250 J	FDP
L2336505	SW8270E	NA	DUP02 20230625	L2336505-06	Carbazole	N	Yes	71 J	71 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Chrysene	N	Yes	720	720 J	FDP
L2336505	SW8270E	NA	DUP02 20230625	L2336505-06	Dibenzofuran	N	Yes	39 J	39 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Fluoranthene	N	Yes	1,300	1,300 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Indeno(1,2,3-cd)pyrene	N	Yes	490	490 J	FDP
L2336505	SW8270E	NA	DUP02 20230625	L2336505-06	Naphthalene	N	Yes	65 J	65 J	FDP
L2336505	SW8270E	NA	DUP02_20230625	L2336505-06	Phenanthrene	N	Yes	820	820 J	FDP
L2336505	SW8270E	NA	DUP02 20230625	L2336505-06	Pyrene	N	Yes	1,200	1,200 J	FDP
L2336505	SW6010D	NA	SB-3 5-7	L2336505-03	Copper	N	Yes	218	218 J	FDP
L2336505	SW6010D	NA	SB-3_5-7	L2336505-03	Iron	N	Yes	22,000	22,000 J	FDP
L2336505	SW6010D	NA	SB-3_5-7	L2336505-03	Manganese	N	Yes	423	423 J	FDP
L2336505	SW6010D	NA	SB-3_5-7	L2336505-03	Selenium	N	Yes	4.67	4.67 J	FDP
L2336505	SW8270E	NA	SB-3 5-7	L2336505-03	Anthracene	N	Yes	460	460 J	FDP
L2336505	SW8270E	NA	SB-3 5-7	L2336505-03	Benzo(a)anthracene	N	Yes	1,400	1,400 J	FDP
L2336505	SW8270E	NA	SB-3 5-7	L2336505-03	Benzo(a)pyrene	N	Yes	1,500	1,500 J	FDP
L2336505	SW8270E	NA NA	SB-3_5 7	L2336505-03	Benzo(b)fluoranthene	N	Yes	1,800	1,800 J	FDP
L2336505	SW8270E	NA NA	SB-3_5-7	L2336505-03	Benzo(g,h,i)perylene	N	Yes	920	920 J	FDP

TABLE 3
SYSTEM PERFORMANCE SUMMARY
FORMER A&A BRAKE SERVICE SITE
BROOKLYN, NEW YORK

	ted Reason for	Validated	Reported	Reportable	Fraction	Analyte	Lab ID	Sample ID	Basis	Method	SDG
12336505 SW8270E NA		Result				•		•			
L2336505 SW8270E NA											
L2336505 SW8270E NA SB-3_5-7 L2336505-03 Dibenzofuran N Yes 260 260 J L2336505 SW8270E NA SB-3_5-7 L2336505-03 Fluoranthene N Yes 3,300 3,300 L2336505 SW8270E NA SB-3_5-7 L2336505-03 Indeno(1,2,3-cd)pyrene N Yes 1,000 1,000 L2336505 SW8270E NA SB-3_5-7 L2336505-03 Naphthalene N Yes 560 560 J L2336505 SW8270E NA SB-3_5-7 L2336505-03 Phenanthrene N Yes 3,000 3,000 L2336505 SW8270E NA SB-3_5-7 L2336505-03 Phenanthrene N Yes 3,000 3,000 L2336505 SW8270E NA SB-3_5-7 L2336505-03 Pyrene N Yes 2,900 2,900 L2336505 SW8010D NA DUPO2_20230625 L2336505-06 Barium N Yes 2,76 2,76 L2336505 SW6010D NA SB-3_5-7 L2336505-03 Barium N Yes 2,76 2,76 L2336505 SW6010D NA SB-3_5-7 L2336505-03 Barium N Yes 481 481 J L2335535 E1633 NA SB-1_1-2 L2335535-07 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-3_12-14 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-3_12-14 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-3_1-2 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-3_1-2 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-3_1-2 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-3_1-2 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2336505 E1633 NA SB-4_0-0.5 L2335535-07 Perfluorobutanesulfonic acid (8:2 FTS) N Yes 0.085 J 0.085 L2336505 E1633 NA SB-4_0-0.5 L2335535-09 Perfluorobutanesulfonic acid (8:2 FTS) N Yes 0.087 J 0.087 L2335535 E1633 NA SB-4_0-0.5 L2335535-09 Perfluorobutanesulfonic acid (8:2 FTS) N Yes 0.087 J 0.087 L2		1						_		+ +	
L2336505 SW8270E NA SB-3_5-7 L2336505-03 Fluoranthene N Yes 3,300 3,300 1,2336505 SW8270E NA SB-3_5-7 L2336505-03 Inden(1,2,3-64)pyrene N Yes 1,000 1,		1,600 J	·					_			
L2336505 SW8270E NA SB-3_5-7 L2336505-03 Indeno(1,2,3-cd)pyrene N Yes 1,000		260 J	260	Yes	N	Dibenzofuran	L2336505-03	SB-3_5-7	NA		
L2336505 SW8270E NA) J FDP	3,300 J	3,300	Yes	N	Fluoranthene	L2336505-03	SB-3_5-7	NA	SW8270E	L2336505
L2336505 SW8270E NA		1,000 J			N	Indeno(1,2,3-cd)pyrene	L2336505-03	SB-3_5-7	NA	SW8270E	
L2336505 SW8270E NA SB-3_5-7 L2336505-03 Pyrene N Yes 2,900 2,900 L2336505 SW6010D NA DUP02_20230625 L2336505-06 Barium N Yes 276 276 J L2336505 SW6010D NA SB-3_5-7 L2336505-03 Barium N Yes 481 481 J L2335535 E1633 NA SB-1_1-2 L2335535-02 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-3_12-14 L2335535-07 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-3_12-14 L2335535-09 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-4_0-0.5 L2335535-09 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U U L2335535 E1633 NA SB-2_5-7 L2335535-09 Per	J FDP	560 J	560	Yes	N	Naphthalene	L2336505-03	SB-3_5-7	NA		L2336505
L2336505 SW6010D) J FDP	3,000 J	3,000	Yes	N	Phenanthrene	L2336505-03	SB-3_5-7	NA	SW8270E	L2336505
L2336505 SW6010D) J FDP	2,900 J	2,900	Yes	N	Pyrene	L2336505-03	SB-3_5-7	NA	SW8270E	L2336505
L2335535 E1633 NA SB-1_1-2 L2335535-02 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-2_5-7 L2335535-07 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-3_12-14 L2336505-05 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-4_0-0.5 L2335535-09 8:2 Fluorotelomer sulfonic acid (8:2 FTS) N Yes U UJ L2335535 E1633 NA SB-2_5-7 L2335535-07 Perfluorobutanesulfonic acid (PFBS) N Yes 0.085 J 0.085 L2335535 E1633 NA SB-3_1-2 L2335535-07 Perfluorobutanesulfonic acid (PFBS) N Yes 0.085 J 0.085 J L2335535 E1633 NA SB-4_0-0.5 L2335535-09 Perfluorobutanesulfonic acid (PFBS) N Yes 0.028 J 0.087 J 0.087 J 0.087 J 0.087	J FDP, MSD	276 J	276	Yes	N	Barium	L2336505-06	DUP02_20230625	NA	SW6010D	L2336505
L2335535 E1633	J FDP, MSD	481 J	481	Yes	N	Barium	L2336505-03	SB-3_5-7	NA	SW6010D	L2336505
L2336505 E1633	IDL	UJ	U	Yes	N	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	L2335535-02	SB-1_1-2	NA	E1633	L2335535
L2335535 E1633	IDL	UJ	U	Yes	N	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	L2335535-07	SB-2_5-7	NA	E1633	L2335535
L2335535 E1633 NA SB-2_5-7 L2335535-07 Perfluorobutanesulfonic acid (PFBS) N Yes 0.085 J 0.085 L L2336505 E1633 NA SB-3_1-2 L2336505-02 Perfluorobutanesulfonic acid (PFBS) N Yes 0.128 J	IDL	UJ	U	Yes	N	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	L2336505-05	SB-3_12-14	NA	E1633	L2336505
L2336505 E1633 NA SB-3_1-2 L2336505-02 Perfluorobutanesulfonic acid (PFBS) N Yes 0.128 J 0.128	IDL	UJ	U	Yes	N	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	L2335535-09	SB-4_0-0.5	NA	E1633	L2335535
L2336505 E1633 NA SB-3_1-2 L2336505-02 Perfluorobutanesulfonic acid (PFBS) N Yes 0.128 J 0.128	5 J ION	0.085 J	0.085 J	Yes	N	Perfluorobutanesulfonic acid (PFBS)	L2335535-07	SB-2_5-7	NA	E1633	L2335535
L2335535 E1633 NA SB-4_0-0.5 L2335535-09 Perfluorobutanesulfonic acid (PFBS) N Yes 0.087 J 0.02 J 0.102	3 J ION	0.128 J	0.128 J	Yes	N	Perfluorobutanesulfonic acid (PFBS)		SB-3 1-2	NA	E1633	L2336505
L2335535 E1633 NA SB-4_0-0.5 L233553-09 Perfluorononanoic acid (PFNA) N Yes 0.102 J 0.102 J <td>7 J ION</td> <td>0.087 J</td> <td>0.087 J</td> <td>Yes</td> <td>N</td> <td>Perfluorobutanesulfonic acid (PFBS)</td> <td>L2335535-09</td> <td>SB-4 0-0.5</td> <td>NA</td> <td>E1633</td> <td>L2335535</td>	7 J ION	0.087 J	0.087 J	Yes	N	Perfluorobutanesulfonic acid (PFBS)	L2335535-09	SB-4 0-0.5	NA	E1633	L2335535
L2335535 E1633 NA SB-6_0-0.5 L233553-16 Perfluorobutanesulfonic acid (PFBS) N Yes 0.054 J 0.054	2 J ION	0.102 J	0.102 J		N	Perfluorononanoic acid (PFNA)	L2335535-09	SB-4 0-0.5	NA	E1633	
L2335535 SW8260D NA DUP01_20230621 L2335535-20 Acetone N Yes 39 39 J L2335535 SW8270E NA DUP01_20230621 L2335535-20 Hexachlorocyclopentadiene N Yes U UJ L2336505 SW8260D NA DUP02_20230625 L2336505-06 Vinyl chloride N Yes U UJ L2336505 SW8270E NA DUP02_20230625 L2336505-06 Hexachlorocyclopentadiene N Yes U UJ L2335535 SW8270E NA FB01_20230625 L2335535-21 4-Chloroaniline N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Chloronaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N <td>1 J ION</td> <td>0.054 J</td> <td>0.054 J</td> <td>Yes</td> <td>N</td> <td>Perfluorobutanesulfonic acid (PFBS)</td> <td>L2335535-16</td> <td>_</td> <td>NA</td> <td>E1633</td> <td></td>	1 J ION	0.054 J	0.054 J	Yes	N	Perfluorobutanesulfonic acid (PFBS)	L2335535-16	_	NA	E1633	
L2335535 SW8270E NA DUP01_20230621 L2335535-20 Hexachlorocyclopentadiene N Yes U UJ L2336505 SW8260D NA DUP02_20230625 L2336505-06 Vinyl chloride N Yes U UJ L2336505 SW8270E NA DUP02_20230625 L2336505-06 Hexachlorocyclopentadiene N Yes U UJ L2335535 SW8270E NA FB01_20230621 L2335535-21 4-Chloroaniline N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Chloronaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N <td>J LCS</td> <td>39 J</td> <td>39</td> <td>Yes</td> <td>N</td> <td>Acetone</td> <td>L2335535-20</td> <td>DUP01 20230621</td> <td>NA</td> <td>SW8260D</td> <td>L2335535</td>	J LCS	39 J	39	Yes	N	Acetone	L2335535-20	DUP01 20230621	NA	SW8260D	L2335535
L2336505 SW8260D NA DUP02_20230625 L2336505-06 Vinyl chloride N Yes U UJ L2336505 SW8270E NA DUP02_20230625 L2336505-06 Hexachlorocyclopentadiene N Yes U UJ L2335535 SW8270E NA FB01_20230621 L2335535-21 4-Chloroaniline N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Chloronaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Methylnaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N	LCS	UJ	U	Yes	N	Hexachlorocyclopentadiene	L2335535-20	DUP01 20230621	NA	SW8270E	L2335535
L2336505 SW8270E NA DUP02_20230625 L2336505-06 Hexachlorocyclopentadiene N Yes U UJ L2335535 SW8270E NA FB01_20230621 L2335535-21 4-Chloroaniline N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Chloronaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS	UJ	U	Yes	N		L2336505-06	DUP02 20230625	NA	SW8260D	L2336505
L2335535 SW8270E NA FB01_20230621 L2335535-21 4-Chloroaniline N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Chloronaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Methylnaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS	UJ	U	Yes	N				NA		
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Chloronaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Methylnaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS		U	Yes	N			_	NA		
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 2-Methylnaphthalene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS	UJ	U		N	2-Chloronaphthalene	L2335921-06	FB02 20230622	NA		
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Acenaphthene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS		U	Yes	N			_	NA		
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Chrysene N Yes U UJ L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS		U		N						
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Fluorene N Yes U UJ	LCS										
	LCS		U		N			_	NA		
L2335921 SW8270ESIM NA FB02 20230622 L2335921-06 Hexachlorobutadiene N Yes U UJ	LCS	UJ	U	Yes	N	Hexachlorobutadiene	L2335921-06	FB02_20230622	NA	SW8270ESIM	L2335921
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Naphthalene N Yes U UJ	LCS		U		N			_	NA		
L2335921 SW8270ESIM NA FB02_20230622 L2335921-06 Phenanthrene N Yes U UJ	LCS	UJ	U		N			_	NA		
L2335535 SW8260D NA SB-1_0-0.5 L2335535-01 1,4-Dioxane N Yes U UJ	LCS		_								
L2335535 SW8260D NA SB-1_0-0.5 L2335535-01 2-Hexanone (Methyl Butyl Ketone) N Yes U UJ	LCS		_		-			_			
L2335535 SW8260D NA SB-1_0-0.5 L2335535-01 Acetone N Yes 84 84 J			_								
L2335535 SW8270E NA SB-1_0-0.5 L2335535-01 Hexachlorocyclopentadiene N Yes U UJ								_			
L2335535 SW8260D NA SB-1_1-2 L2335535-02 Acetone N Yes 7.8 J 7.8 J			_					_			
L2335535 SW8270E NA SB-1_1-2 L2335535-02 Hexachlorocyclopentadiene N Yes U UJ	LCS							_			
L2335535 SW8260D NA SB-1 10-12 L2335535-04 1,4-Dioxane N Yes U UJ	LCS		_					_			
L2335535 SW8260D NA SB-1 10-12 L2335535-04 2-Hexanone (Methyl Butyl Ketone) N Yes U UJ	LCS					,		_			

TABLE 3
SYSTEM PERFORMANCE SUMMARY
FORMER A&A BRAKE SERVICE SITE
BROOKLYN, NEW YORK

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
L2335535	SW8270E	NA	SB-1_10-12	L2335535-04	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-1_12-15	L2335535-05	Acetone	N	Yes	40	40 J	LCS
L2335535	SW8270E	NA	SB-1_12-15	L2335535-05	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-1_5-7	L2335535-03	1,4-Dioxane	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-1_5-7	L2335535-03	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	LCS
L2335535	SW8270E	NA	SB-1_5-7	L2335535-03	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-2_0-0.5	L2335535-06	1,4-Dioxane	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-2_0-0.5	L2335535-06	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	LCS
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-2_12-14	L2335535-08	Acetone	N	Yes	23	23 J	LCS
L2335535	SW8270E	NA	SB-2_12-14	L2335535-08	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-2_5-7	L2335535-07	Acetone	N	Yes	120	120 J	LCS
L2336505	SW8260D	NA	SB-3_0-0.5	L2336505-01	Vinyl Chloride	N	Yes	U	UJ	LCS
L2336505	SW8270E	NA	SB-3 0-0.5	L2336505-01	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3 1-2	L2336505-02	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3 1-2	L2336505-02	Ethyl Ether	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3 1-2	L2336505-02	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3 1-2	L2336505-02	Vinyl Acetate	N	Yes	U	UJ	LCS
L2336505	SW8270E	NA	SB-3 1-2	L2336505-02	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3 12-14	L2336505-05	Vinyl Chloride	N	Yes	U	UJ	LCS
L2336505	SW8270E	NA	SB-3 12-14	L2336505-05	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3_5-7	L2336505-03	Vinyl Chloride	N	Yes	U	UJ	LCS
L2336505	SW8270E	NA	SB-3 5-7	L2336505-03	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2336505	SW8260D	NA	SB-3 9-11	L2336505-04	Vinyl Chloride	N	Yes	U	UJ	LCS
L2336505	SW8270E	NA	SB-3 9-11	L2336505-04	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-4 0-0.5	L2335535-09	Acetone	N	Yes	56	56 J	LCS
L2335535	SW8270E	NA	SB-4 0-0.5	L2335535-09	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8270E	NA	SB-4 12-14	L2335535-12	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	Acetone	N	Yes	8.1 J	8.1 J	LCS
L2335535	SW8260D	NA	SB-4 8-10	L2335535-11	1,4-Dioxane	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-4 8-10	L2335535-11	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	LCS
L2335535	SW8270E	NA	SB-4 8-10	L2335535-11	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-5 0-0.5	L2335535-13	Acetone	N	Yes	33	33 J	LCS
L2335535	SW8270E	NA	SB-5 0-0.5	L2335535-13	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-5_12-14	L2335535-15	Acetone	N	Yes	42	42 J	LCS
L2335535	SW8270E	NA	SB-5_12-14	L2335535-15	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-5 5-7	L2335535-14	Acetone	N	Yes	88	88 J	LCS
L2335535	SW8270E	NA	SB-5 5-7	L2335535-14	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8270E	NA	SB-6 0-0.5	L2335535-16	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-6 10-12	L2335535-18	1,4-Dioxane	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-6 10-12	L2335535-18	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	LCS

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SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
L2335535	SW8270E	NA	SB-6_10-12	L2335535-18	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-6_12-14	L2335535-19	Acetone	N	Yes	26	26 J	LCS
L2335535	SW8270E	NA	SB-6_12-14	L2335535-19	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335535	SW8260D	NA	SB-6_5-7	L2335535-17	Acetone	N	Yes	12	12 J	LCS
L2335535	SW8270E	NA	SB-6_5-7	L2335535-17	Hexachlorocyclopentadiene	N	Yes	U	UJ	LCS
L2335921	SW8260D	NA	SB-7_0-0.5	L2335921-01	Vinyl Chloride	N	Yes	U	UJ	LCS
L2335921	SW8270E	NA	SB-7_0-0.5	L2335921-01	Pentachlorophenol	N	Yes	U	UJ	LCS
L2335921	SW8270E	NA	SB-7_0-0.5	L2335921-01	Phenol	N	Yes	U	UJ	LCS
L2335921	SW8260D	NA	SB-7_1-2	L2335921-02	Vinyl Chloride	N	Yes	U	UJ	LCS
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Phenol	N	Yes	U	UJ	LCS
L2335921	SW8260D	NA	SB-7_5-7	L2335921-03	Vinyl Chloride	N	Yes	U	UJ	LCS
L2335921	SW8260D	NA	SB-7_9-11	L2335921-04	Vinyl Chloride	N	Yes	U	UJ	LCS
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Pentachlorophenol	N	Yes	U	R	LCS, SUR
L2335535	SW7470A	NA	FB01_20230621	L2335535-21	Mercury	T	Yes	0.00011 J	0.0002 U	MBK
L2335535	SW6010D	NA	DUP01_20230621	L2335535-20	Antimony	N	Yes	0.698 J	0.698 J	MSD
L2335535	SW6010D	NA	DUP01_20230621	L2335535-20	Calcium	N	Yes	720	720 J	MSD
L2335535	SW6010D	NA	DUP01_20230621	L2335535-20	Lead	N	Yes	6.54	6.54 J	MSD
L2335535	SW6010D	NA	DUP01_20230621	L2335535-20	Magnesium	N	Yes	1,830	1,830 J	MSD
L2335535	SW6010D	NA	DUP01_20230621	L2335535-20	Zinc	N	Yes	23.4	23.4 J	MSD
L2335535	SW6010D	NA	SB-1_0-0.5	L2335535-01	Antimony	N	Yes	13.1	13.1 J	MSD
L2335535	SW6010D	NA	SB-1_0-0.5	L2335535-01	Calcium	N	Yes	48,800	48,800 J	MSD
L2335535	SW6010D	NA	SB-1_0-0.5	L2335535-01	Lead	N	Yes	1,370	1,370 J	MSD
L2335535	SW6010D	NA	SB-1_0-0.5	L2335535-01	Magnesium	N	Yes	5,230	5,230 J	MSD
L2335535	SW6010D	NA	SB-1_0-0.5	L2335535-01	Zinc	N	Yes	2,610	2,610 J	MSD
L2335535	SW6010D	NA	SB-1_1-2	L2335535-02	Antimony	N	Yes	5.8	5.8 J	MSD
L2335535	SW6010D	NA	SB-1_1-2	L2335535-02	Calcium	N	Yes	45,100	45,100 J	MSD
L2335535	SW6010D	NA	SB-1_1-2	L2335535-02	Lead	N	Yes	1,570	1,570 J	MSD
L2335535	SW6010D	NA	SB-1_1-2	L2335535-02	Magnesium	N	Yes	4,700	4,700 J	MSD
L2335535	SW6010D	NA	SB-1_1-2	L2335535-02	Zinc	N	Yes	3,880	3,880 J	MSD
L2335535	SW6010D	NA	SB-1_10-12	L2335535-04	Antimony	N	Yes	0.594 J	0.594 J	MSD
L2335535	SW6010D	NA	SB-1_10-12	L2335535-04	Calcium	N	Yes	692	692 J	MSD
L2335535	SW6010D	NA	SB-1_10-12	L2335535-04	Lead	N	Yes	6.03	6.03 J	MSD
L2335535	SW6010D	NA	SB-1_10-12	L2335535-04	Magnesium	N	Yes	1,820	1,820 J	MSD
L2335535	SW6010D	NA	SB-1_10-12	L2335535-04	Zinc	N	Yes	21.5	21.5 J	MSD
L2335535	SW6010D	NA	SB-1_12-15	L2335535-05	Antimony	N	Yes	0.609 J	0.609 J	MSD
L2335535	SW6010D	NA	SB-1_12-15	L2335535-05	Calcium	N	Yes	809	809 J	MSD
L2335535	SW6010D	NA	SB-1_12-15	L2335535-05	Lead	N	Yes	6.79	6.79 J	MSD
L2335535	SW6010D	NA	SB-1_12-15	L2335535-05	Magnesium	N	Yes	1,710	1,710 J	MSD
L2335535	SW6010D	NA	SB-1_12-15	L2335535-05	Zinc	N	Yes	22.9	22.9 J	MSD
L2335535	SW6010D	NA	 SB-1_5-7	L2335535-03	Antimony	N	Yes	0.759 J	0.759 J	MSD
L2335535	SW6010D	NA	SB-1 5-7	L2335535-03	Calcium	N	Yes	5,770	5,770 J	MSD

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L2335535	SW6010D	NA	SB-1_5-7	L2335535-03	Lead	N	Yes	331	331 J	MSD
L2335535	SW6010D	NA	SB-1_5-7	L2335535-03	Magnesium	N	Yes	3,050	3,050 J	MSD
L2335535	SW6010D	NA	SB-1_5-7	L2335535-03	Zinc	N	Yes	230	230 J	MSD
L2335535	SW6010D	NA	SB-2_0-0.5	L2335535-06	Antimony	N	Yes	3.54 J	3.54 J	MSD
L2335535	SW6010D	NA	SB-2_0-0.5	L2335535-06	Calcium	N	Yes	54,700	54,700 J	MSD
L2335535	SW6010D	NA	SB-2_0-0.5	L2335535-06	Lead	N	Yes	692	692 J	MSD
L2335535	SW6010D	NA	SB-2_0-0.5	L2335535-06	Magnesium	N	Yes	8,230	8,230 J	MSD
L2335535	SW6010D	NA	SB-2_0-0.5	L2335535-06	Zinc	N	Yes	741	741 J	MSD
L2335535	SW6010D	NA	SB-2_12-14	L2335535-08	Antimony	N	Yes	U	UJ	MSD
L2335535	SW6010D	NA	SB-2_12-14	L2335535-08	Calcium	N	Yes	202	202 J	MSD
L2335535	SW6010D	NA	SB-2_12-14	L2335535-08	Lead	N	Yes	3.48 J	3.48 J	MSD
L2335535	SW6010D	NA	SB-2 12-14	L2335535-08	Magnesium	N	Yes	1,620	1,620 J	MSD
L2335535	SW6010D	NA	SB-2_12-14	L2335535-08	Zinc	N	Yes	15.9	15.9 J	MSD
L2335535	SW6010D	NA	SB-2_5-7	L2335535-07	Antimony	N	Yes	2.02 J	2.02 J	MSD
L2335535	SW6010D	NA	SB-2 5-7	L2335535-07	Calcium	N	Yes	54,300	54,300 J	MSD
L2335535	SW6010D	NA	SB-2_5-7	L2335535-07	Lead	N	Yes	1,330	1,330 J	MSD
L2335535	SW6010D	NA	SB-2_5-7	L2335535-07	Magnesium	N	Yes	8,280	8,280 J	MSD
L2335535	SW6010D	NA	SB-2_5-7	L2335535-07	Zinc	N	Yes	750	750 J	MSD
L2336505	SW6010D	NA	SB-3 0-0.5	L2336505-01	Barium	N	Yes	106	106 J	MSD
L2336505	SW6010D	NA	SB-3 1-2	L2336505-02	Barium	N	Yes	231	231 J	MSD
L2336505	SW6010D	NA	SB-3_12-14	L2336505-05	Barium	N	Yes	23.1	23.1 J	MSD
L2336505	SW6010D	NA	SB-3_9-11	L2336505-04	Barium	N	Yes	28	28 J	MSD
L2335535	SW6010D	NA	SB-4 0-0.5	L2335535-09	Antimony	N	Yes	9.79	9.79 J	MSD
L2335535	SW6010D	NA	SB-4_0-0.5	L2335535-09	Calcium	N	Yes	34,200	34,200 J	MSD
L2335535	SW6010D	NA	SB-4_0-0.5	L2335535-09	Lead	N	Yes	1,870	1,870 J	MSD
L2335535	SW6010D	NA	SB-4 0-0.5	L2335535-09	Magnesium	N	Yes	3,930	3,930 J	MSD
L2335535	SW6010D	NA	SB-4_0-0.5	L2335535-09	Zinc	N	Yes	6,200	6,200 J	MSD
L2335535	SW6010D	NA	SB-4_12-14	L2335535-12	Antimony	N	Yes	0.671 J	0.671 J	MSD
L2335535	SW6010D	NA	SB-4_12-14	L2335535-12	Calcium	N	Yes	701	701 J	MSD
L2335535	SW6010D	NA	SB-4_12-14	L2335535-12	Lead	N	Yes	3.66 J	3.66 J	MSD
L2335535	SW6010D	NA	SB-4_12-14	L2335535-12	Magnesium	N	Yes	2,610	2,610 J	MSD
L2335535	SW6010D	NA	SB-4_12-14	L2335535-12	Zinc	N	Yes	20.6	20.6 J	MSD
L2335535	SW6010D	NA	SB-4 5-7	L2335535-10	Antimony	N	Yes	0.397 J	0.397 J	MSD
L2335535	SW6010D	NA	SB-4 5-7	L2335535-10	Calcium	N	Yes	2,010	2,010 J	MSD
L2335535	SW6010D	NA	SB-4_5-7	L2335535-10	Lead	N	Yes	40.3	40.3 J	MSD
L2335535	SW6010D	NA	SB-4_5-7	L2335535-10	Magnesium	N	Yes	1,670	1,670 J	MSD
L2335535	SW6010D	NA	SB-4_5-7	L2335535-10	Zinc	N	Yes	51.4	51.4 J	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	1,2,3-Trichlorobenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2,3-Trichloropropane	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2,4,5-Tetramethylbenzene	N	Yes	U	UJ	MSD

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L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2,4-Trichlorobenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2,4-Trimethylbenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,2-Dichlorobenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,3-Dichlorobenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,4-Dichlorobenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	1,4-Diethylbenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	2-Chlorotoluene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	4-Chlorotoluene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	Bromobenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	Hexachlorobutadiene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4_5-7	L2335535-10	Isopropylbenzene (Cumene)	N	Yes	0.13 J	0.13 J	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	Naphthalene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	Vinyl Acetate	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	n-Butylbenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	n-Propylbenzene	N	Yes	0.37 J	0.37 J	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	tert-Butylbenzene	N	Yes	U	UJ	MSD
L2335535	SW8260D	NA	SB-4 5-7	L2335535-10	trans-1,4-Dichloro-2-butene	N	Yes	U	UJ	MSD
L2335535	SW8270E	NA	SB-4 5-7	L2335535-10	2,4-Dinitrophenol	N	Yes	U	R	MSD
L2335535	SW8270E	NA	SB-4 5-7	L2335535-10	4,6-Dinitro-2-methylphenol	N	Yes	U	R	MSD
L2335535	SW8270E	NA	SB-4 5-7	L2335535-10	Benzoic Acid	N	Yes	U	R	MSD
L2335535	SW8270E	NA	SB-4 5-7	L2335535-10	Hexachlorocyclopentadiene	N	Yes	U	R	MSD
L2335535	SW6010D	NA	SB-4 8-10	L2335535-11	Antimony	N	Yes	U	UJ	MSD
L2335535	SW6010D	NA	SB-4 8-10	L2335535-11	Calcium	N	Yes	2,550	2,550 J	MSD
L2335535	SW6010D	NA	SB-4_8-10	L2335535-11	Lead	N	Yes	19.2	19.2 J	MSD
L2335535	SW6010D	NA	SB-4 8-10	L2335535-11	Magnesium	N	Yes	1,650	1,650 J	MSD
L2335535	SW6010D	NA	SB-4 8-10	L2335535-11	Zinc	N	Yes	24.9	24.9 J	MSD
L2335535	SW6010D	NA	SB-5 0-0.5	L2335535-13	Antimony	N	Yes	16	16 J	MSD
L2335535	SW6010D	NA	SB-5 0-0.5	L2335535-13	Calcium	N	Yes	18,300	18,300 J	MSD
L2335535	SW6010D	NA	SB-5 0-0.5	L2335535-13	Lead	N	Yes	64	64 J	MSD
L2335535	SW6010D	NA	SB-5 0-0.5	L2335535-13	Magnesium	N	Yes	2,670	2,670 J	MSD
L2335535	SW6010D	NA	SB-5_0-0.5	L2335535-13	Zinc	N	Yes	37.8	37.8 J	MSD
L2335535	SW6010D	NA	SB-5 12-14	L2335535-15	Antimony	N	Yes	0.577 J	0.577 J	MSD
L2335535	SW6010D	NA	SB-5_12-14	L2335535-15	Calcium	N	Yes	724	724 J	MSD
L2335535	SW6010D	NA	SB-5 12-14	L2335535-15	Lead	N	Yes	7.54	7.54 J	MSD
L2335535	SW6010D	NA	SB-5 12-14	L2335535-15	Magnesium	N	Yes	2,630	2,630 J	MSD
L2335535	SW6010D	NA	SB-5 12-14	L2335535-15	Zinc	N	Yes	22	22 J	MSD

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SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable	Reported	Validated	Reason for
	Wethou	Dasis	·	Lab ID	Allalyte	Fraction	Result	Result	Result	Qualifier
L2335535	SW6010D	NA	SB-5_5-7	L2335535-14	Antimony	N	Yes	2.72 J	2.72 J	MSD
L2335535	SW6010D	NA	SB-5_5-7	L2335535-14	Calcium	N	Yes	32,200	32,200 J	MSD
L2335535	SW6010D	NA	SB-5_5-7	L2335535-14	Lead	N	Yes	145	145 J	MSD
L2335535	SW6010D	NA	SB-5_5-7	L2335535-14	Magnesium	N	Yes	5,060	5,060 J	MSD
L2335535	SW6010D	NA	SB-5_5-7	L2335535-14	Zinc	N	Yes	110	110 J	MSD
L2335535	SW6010D	NA	SB-6_0-0.5	L2335535-16	Antimony	N	Yes	1.39 J	1.39 J	MSD
L2335535	SW6010D	NA	SB-6_0-0.5	L2335535-16	Calcium	N	Yes	17,600	17,600 J	MSD
L2335535	SW6010D	NA	SB-6_0-0.5	L2335535-16	Lead	N	Yes	727	727 J	MSD
L2335535	SW6010D	NA	SB-6_0-0.5	L2335535-16	Magnesium	N	Yes	7,670	7,670 J	MSD
L2335535	SW6010D	NA	SB-6_0-0.5	L2335535-16	Zinc	N	Yes	588	588 J	MSD
L2335535	SW6010D	NA	SB-6_10-12	L2335535-18	Antimony	N	Yes	U	UJ	MSD
L2335535	SW6010D	NA	SB-6_10-12	L2335535-18	Calcium	N	Yes	490	490 J	MSD
L2335535	SW6010D	NA	SB-6_10-12	L2335535-18	Lead	N	Yes	5.27	5.27 J	MSD
L2335535	SW6010D	NA	SB-6_10-12	L2335535-18	Magnesium	N	Yes	1,380	1,380 J	MSD
L2335535	SW6010D	NA	SB-6_10-12	L2335535-18	Zinc	N	Yes	18	18 J	MSD
L2335535	SW6010D	NA	SB-6_12-14	L2335535-19	Antimony	N	Yes	0.423 J	0.423 J	MSD
L2335535	SW6010D	NA	SB-6_12-14	L2335535-19	Calcium	N	Yes	690	690 J	MSD
L2335535	SW6010D	NA	SB-6_12-14	L2335535-19	Lead	N	Yes	2.77 J	2.77 J	MSD
L2335535	SW6010D	NA	SB-6_12-14	L2335535-19	Magnesium	N	Yes	1,240	1,240 J	MSD
L2335535	SW6010D	NA	SB-6_12-14	L2335535-19	Zinc	N	Yes	17.4	17.4 J	MSD
L2335535	SW6010D	NA	SB-6_5-7	L2335535-17	Antimony	N	Yes	3.61 J	3.61 J	MSD
L2335535	SW6010D	NA	SB-6_5-7	L2335535-17	Calcium	N	Yes	13,600	13,600 J	MSD
L2335535	SW6010D	NA	SB-6_5-7	L2335535-17	Lead	N	Yes	814	814 J	MSD
L2335535	SW6010D	NA	SB-6_5-7	L2335535-17	Magnesium	N	Yes	5,240	5,240 J	MSD
L2335535	SW6010D	NA	SB-6_5-7	L2335535-17	Zinc	N	Yes	314	314 J	MSD
L2335921	SW6010D	NA	SB-7_0-0.5	L2335921-01	Lead	N	Yes	132	132 J	MSD
L2335921	SW6010D	NA	SB-7_1-2	L2335921-02	Chromium	N	Yes	25	25 J	MSD
L2335921	SW6010D	NA	SB-7_1-2	L2335921-02	Lead	N	Yes	169	169 J	MSD
L2335921	SW6010D	NA	SB-7_1-2	L2335921-02	Nickel	N	Yes	37.7	37.7 J	MSD
L2335921	SW6010D	NA	SB-7_1-2	L2335921-02	Sodium	N	Yes	240	240 J	MSD
L2335921	SW7471B	NA	SB-7_1-2	L2335921-02	Mercury	N	Yes	0.934	0.934 J+	MSD
L2335921	SW6010D	NA	SB-7_12-14	L2335921-05	Chromium	N	Yes	18	18 J	MSD
L2335921	SW6010D	NA	SB-7_12-14	L2335921-05	Lead	N	Yes	21	21 J	MSD
L2335921	SW6010D	NA	SB-7_12-14	L2335921-05	Nickel	N	Yes	40.8	40.8 J	MSD
L2335921	SW6010D	NA	SB-7_12-14	L2335921-05	Sodium	N	Yes	186	186 J	MSD
L2335921	SW7471B	NA	SB-7_12-14	L2335921-05	Mercury	N	Yes	0.146	0.146 J+	MSD
L2335921	SW6010D	NA	SB-7_5-7	L2335921-03	Chromium	N	Yes	30.9	30.9 J	MSD
L2335921	SW6010D	NA	SB-7_5-7	L2335921-03	Lead	N	Yes	628	628 J	MSD
L2335921	SW6010D	NA	SB-7_5-7	L2335921-03	Nickel	N	Yes	28.7	28.7 J	MSD
L2335921	SW6010D	NA	SB-7_5-7	L2335921-03	Sodium	N	Yes	206	206 J	MSD
L2335921	SW7471B	NA	SB-7_5-7	L2335921-03	Mercury	N	Yes	1.43	1.43 J+	MSD

TABLE 3
SYSTEM PERFORMANCE SUMMARY
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SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable	Reported	Validated	Reason for
			•		<u> </u>		Result	Result	Result	Qualifier
L2335921	SW6010D	NA	SB-7_9-11	L2335921-04	Chromium	N	Yes	54.4	54.4 J	MSD
L2335921	SW6010D	NA	SB-7_9-11	L2335921-04	Lead	N	Yes	31.2	31.2 J	MSD
L2335921	SW6010D	NA	SB-7_9-11	L2335921-04	Nickel	N	Yes	41.6	41.6 J	MSD
L2335921	SW6010D	NA	SB-7_9-11	L2335921-04	Sodium	N	Yes	428	428 J	MSD
L2336234	SW6010D	NA	SB-8_0-0.5	L2336234-01	Antimony	N	Yes	U	UJ	MSD
L2336234	SW6010D	NA	SB-8_0-0.5	L2336234-01	Calcium	N	Yes	12,500	12,500 J	MSD
L2336234	SW6010D	NA	SB-8_0-0.5	L2336234-01	Magnesium	N	Yes	2,760	2,760 J	MSD
L2336234	SW6010D	NA	SB-8_0-0.5	L2336234-01	Manganese	N	Yes	202	202 J	MSD
L2336234	SW6010D	NA	SB-8_1-2	L2336234-02	Antimony	N	Yes	U	UJ	MSD
L2336234	SW6010D	NA	SB-8_1-2	L2336234-02	Calcium	N	Yes	24,200	24,200 J	MSD
L2336234	SW6010D	NA	SB-8_1-2	L2336234-02	Magnesium	N	Yes	2,930	2,930 J	MSD
L2336234	SW6010D	NA	SB-8_1-2	L2336234-02	Manganese	N	Yes	215	215 J	MSD
L2336234	SW6010D	NA	SB-8_12-14	L2336234-05	Antimony	N	Yes	U	UJ	MSD
L2336234	SW6010D	NA	SB-8_12-14	L2336234-05	Calcium	N	Yes	436	436 J	MSD
L2336234	SW6010D	NA	SB-8_12-14	L2336234-05	Magnesium	N	Yes	1,170	1,170 J	MSD
L2336234	SW6010D	NA	SB-8_12-14	L2336234-05	Manganese	N	Yes	92.6	92.6 J	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	1,2,3-Trichlorobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	1,2,4,5-Tetramethylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	1,2,4-Trichlorobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	1,2,4-Trimethylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	1,2-Dichlorobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	1,3,5-Trimethylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	1,3-Dichlorobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	1,4-Dichlorobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	1,4-Diethylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	2-Chlorotoluene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	4-Chlorotoluene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	Bromobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	Chlorobenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	Dibromomethane	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	Ethylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	Hexachlorobutadiene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	Isopropylbenzene (Cumene)	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8 12-14	L2336234-05	Naphthalene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	Styrene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA NA	SB-8 12-14	L2336234-05	Tetrachloroethene	N	Yes	3	3 J	MSD
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L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	Vinyl acetate	N	Yes	U	UJ	MSD

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			·		<u> </u>		Result	Result	Result	Qualifier
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	m,p-Xylenes	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	n-Butylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	n-Propylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	o-Xylene	N	Yes	U	UJ	MSD
L2336234	SW8260D	NA	SB-8_12-14	L2336234-05	tert-Butylbenzene	N	Yes	U	UJ	MSD
L2336234	SW8270E	NA	SB-8_12-14	L2336234-05	2,4-Dinitrophenol	N	Yes	U	R	MSD
L2336234	SW8270E	NA	SB-8_12-14	L2336234-05	4,6-Dinitro-2-methylphenol	N	Yes	U	R	MSD
L2336234	SW8270E	NA	SB-8_12-14	L2336234-05	Benzoic acid	N	Yes	U	R	MSD
L2336234	SW8270E	NA	SB-8_12-14	L2336234-05	Hexachlorocyclopentadiene	N	Yes	U	R	MSD
L2336234	SW6010D	NA	SB-8_5-7	L2336234-03	Antimony	N	Yes	U	UJ	MSD
L2336234	SW6010D	NA	SB-8_5-7	L2336234-03	Calcium	N	Yes	2,400	2,400 J	MSD
L2336234	SW6010D	NA	SB-8_5-7	L2336234-03	Magnesium	N	Yes	1,780	1,780 J	MSD
L2336234	SW6010D	NA	SB-8_5-7	L2336234-03	Manganese	N	Yes	159	159 J	MSD
L2336234	SW6010D	NA	SB-8_9-11	L2336234-04	Antimony	N	Yes	U	UJ	MSD
L2336234	SW6010D	NA	SB-8_9-11	L2336234-04	Calcium	N	Yes	1,540	1,540 J	MSD
L2336234	SW6010D	NA	SB-8_9-11	L2336234-04	Magnesium	N	Yes	2,270	2,270 J	MSD
L2336234	SW6010D	NA	SB-8_9-11	L2336234-04	Manganese	N	Yes	268	268 J	MSD
L2335535	SW8081B	NA	SB-1_0-0.5	L2335535-01	4,4'-DDE	N	Yes	6.47	6.47 J	RPD
L2335535	SW8081B	NA	SB-1 1-2	L2335535-02	gamma-Chlordane (trans)	N	Yes	6.24	6.24 J	RPD
L2335535	SW8081B	NA	SB-4_0-0.5	L2335535-09	gamma-Chlordane (trans)	N	Yes	11.8	11.8 J	RPD
L2335535	SW8081B	NA	SB-5_0-0.5	L2335535-13	4,4'-DDD	N	Yes	0.686 J	0.686 J	RPD
L2335535	SW8081B	NA	SB-5 0-0.5	L2335535-13	gamma-Chlordane (trans)	N	Yes	1.78 J	1.78 J	RPD
L2335535	SW8081B	NA	SB-5_5-7	L2335535-14	4,4'-DDD	N	Yes	U	UJ	RPD
L2335535	SW8081B	NA	SB-5_5-7	L2335535-14	gamma-Chlordane (trans)	N	Yes	0.846 J	0.846 J	RPD
L2335921	SW8081B	NA	SB-7 5-7	L2335921-03	4,4'-DDT	N	Yes	3.57	3.57 J	RPD
L2335921	SW8081B	NA	SB-7 5-7	L2335921-03	alpha-Chlordane (cis)	N	Yes	0.89 J	0.89 J	RPD
L2335921	SW8081B	NA	SB-7 5-7	L2335921-03	gamma-Chlordane (trans)	N	Yes	U	UJ	RPD
L2335535	SW8081B	NA	SB-1 5-7	L2335535-03	4,4'-DDE	N	Yes	6.18	6.18 J+	RPD, SUR
L2335535	SW8081B	NA	SB-1_5-7	L2335535-03	alpha-Chlordane (cis)	N	Yes	5.65	5.65 J+	RPD, SUR
L2335535	SW8081B	NA	SB-1 5-7	L2335535-03	4.4'-DDT	N	Yes	74.3	74.3 J+	SUR
L2335535	SW8081B	NA	SB-1 5-7	L2335535-03	Chlordane	N	Yes	155	155 J+	SUR
L2335535	SW8081B	NA	SB-1 5-7	L2335535-03	gamma-Chlordane (trans)	N	Yes	8.22	8.22 J+	SUR
L2335535	SW8260D	NA	SB-1 5-7	L2335535-03	1,2,4,5-Tetramethylbenzene	N	Yes	100	100 J+	SUR
L2335535	SW8260D	NA	SB-1 5-7	L2335535-03	1,2,4-Trimethylbenzene	N	Yes	1.1 J	1.1 J+	SUR
L2335535	SW8260D	NA	SB-1_5-7	L2335535-03	1,3,5-Trimethylbenzene	N	Yes	0.27 J	0.27 J+	SUR
L2335535	SW8260D	NA	SB-1 5-7	L2335535-03	Isopropylbenzene (Cumene)	N	Yes	6.2	6.2 J+	SUR
L2335535	SW8260D	NA NA	SB-1_5 7	L2335535-03	Naphthalene	N	Yes	2.3 J	2.3 J+	SUR
L2335535	SW8260D	NA NA	SB-1_5-7	L2335535-03	n-Butylbenzene	N	Yes	32	32 J+	SUR
L2335535	SW8260D	NA NA	SB-1_5-7	L2335535-03	n-Propylbenzene	N	Yes	18	18 J+	SUR
L2335535	SW8260D	NA NA	SB-1_5-7	L2335535-03	tert-Butylbenzene	N	Yes	0.57 J	0.57 J+	SUR
			_		,					
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	1,2-Dichlorobenzene	N	Yes	U	UJ	SUR

TABLE 3
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L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	1,3-Dichlorobenzene	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	1,4-Dichlorobenzene	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	2-Chlorophenol	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	Benzyl Alcohol	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	Phenol	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-2_0-0.5	L2335535-06	bis(2-Chloroethyl)ether	N	Yes	U	UJ	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	4,4'-DDD	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	4,4'-DDE	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	4,4'-DDT	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Aldrin	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Chlordane	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Dieldrin	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Endosulfan I	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Endosulfan II	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Endosulfan Sulfate	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Endrin	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Endrin Aldehyde	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Endrin Ketone	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Heptachlor	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Heptachlor Epoxide	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Methoxychlor	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	Toxaphene	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	alpha-BHC	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	alpha-Chlordane (cis)	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	beta-BHC	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	delta-BHC	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	gamma-BHC (Lindane)	N	Yes	U	R	SUR
L2335535	SW8081B	NA	SB-4_8-10	L2335535-11	gamma-Chlordane (trans)	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	1,2-Dichlorobenzene	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	1,3-Dichlorobenzene	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	1,4-Dichlorobenzene	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	2-Chlorophenol	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	Benzyl Alcohol	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	Phenol	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_0-0.5	L2335535-13	bis(2-Chloroethyl)ether	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	1,1,1-Trichloroethane	N	Yes	U	ΟĴ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	1,1-Dichloroethane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	1,1-Dichloroethene	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	1,1-Dichloropropene	N	Yes	U	UJ	SUR

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SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
L2335535	SW8260D	NA	SB-5 5-7	L2335535-14	1,2-Dichloroethane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5 5-7	L2335535-14	1,2-Dichloropropane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	1,4-Dioxane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5 5-7	L2335535-14	2,2-Dichloropropane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	2-Butanone (Methyl Ethyl Ketone)	N	Yes	8.9 J	8.9 J-	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Acrylonitrile	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Benzene	N	Yes	0.29 J	0.29 J-	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Bromodichloromethane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Carbon Disulfide	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Carbon Tetrachloride	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Chloroethane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Chloroform (Trichloromethane)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Dibromomethane	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Ethyl Ether	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Trichloroethene	N	Yes	1.4	1.4 J-	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Vinyl Acetate	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	Vinyl Chloride	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	cis-1,2-Dichloroethene	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	cis-1,3-Dichloropropene	N	Yes	U	UJ	SUR
L2335535	SW8260D	NA	SB-5_5-7	L2335535-14	trans-1,2-Dichloroethene	N	Yes	U	UJ	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	1,2-Dichlorobenzene	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	1,3-Dichlorobenzene	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	1,4-Dichlorobenzene	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	2-Chlorophenol	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	2-Methylphenol (o-Cresol)	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Anthracene	N	Yes	1,200	1,200 J-	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Benzyl Alcohol	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Butyl benzylphthalate (BBP)	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Carbazole	N	Yes	240	240 J-	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Di-n-butylphthalate (DBP)	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Fluoranthene	N	Yes	5,400	5,400 J-	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Pentachlorophenol	N	Yes	U	R	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Phenanthrene	N	Yes	4,500	4,500 J-	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Phenol	N	Yes	U	R	SUR

SYSTEM PERFORMANCE SUMMARY

FORMER A&A BRAKE SERVICE SITE BROOKLYN, NEW YORK

cnc	Method	od Basis Sample ID Lab ID Analyte Fr		Fraction	Reportable	Reported	Validated	Reason for		
SDG	ivietnoa	Basis	Sample ID	Lab ID	Analyte	Fraction	Result	Result	Result	Qualifier
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	Pyrene	N	Yes	5,300	5,300 J-	SUR
L2335535	SW8270E	NA	SB-5_5-7	L2335535-14	bis(2-Chloroethyl)ether	N	Yes	U	R	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Anthracene	N	Yes	230	230 J-	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Butyl benzylphthalate (BBP)	N	Yes	U	R	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Carbazole	N	Yes	140 J	140 J-	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Di-n-butylphthalate (DBP)	N	Yes	U	R	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Fluoranthene	N	Yes	1,400	1,400 J-	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Phenanthrene	N	Yes	1,100	1,100 J-	SUR
L2335921	SW8270E	NA	SB-7_1-2	L2335921-02	Pyrene	N	Yes	1,200	1,200 J-	SUR

Notes:

%R = percent recovery

DUP = duplicate

FDP = field duplicate

IDL = Isotope dilution outside recovery limits.

 $ION = lon\ ratios\ were\ reviewed\ and\ were\ outside\ the\ limits\ of\ 50-150\%\ or\ the\ signal\ to\ noise\ ratios\ (S/N)\ were\ not\ \ge\ 10\ for\ all\ ions\ used\ for\ quantitation/\ \ge\ 3\ for\ all\ ions\ used\ for\ confirmation.$

J- = The result is an estimated quantity, but the result may be biased low.

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

LCS/LCSD = laboratory control sample/laboratory control sample duplicate

MBK = Method blank contamination.

MSD = matrix spike duplicate

NA = not applicable

ND = non-detect

R = The sample results were rejected as unusable; the compound may or may not be present in the sample.

RPD = relative percent difference

SDG = sample delivery group

SUR = Surrogate percent recovery outside acceptance limits.

U = The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.





Data Usability Summary Report

Project Name: Sackett Street

Project Description: Groundwater Samples

Sample Date(s): 6 July through 17 July 2023

Analytical Laboratory: Alpha Analytical - Westborough, MA

Validation Performed by: Kirkland Broadwell & Kristina Ilina

Validation Reviewed by: Katherine Miller

Validation Date: 28 July 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Groups (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers
- 2. Precision and Accuracy
- 3. Explanations
- 4. Glossary
- 5. Abbreviations
- 6. Qualifiers

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- NFG for Organic Data Review.
- Data Validation Guidelines for Perfluoroalkyl Substances (PFAS) Analyzed Using USEPA Method 537.
- Sampling, Analysis, and Assessment of PFAS Under New York State Department of Environmental Conservation's (NYSDEC) Part 375 Remedial Programs.
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and RL are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and therefore usable; any exceptions are noted in the following pages.



1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of the following SDG numbers:

- L2338623, dated 25 July 2023; and
- L2340792, dated 26 July 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
MW-2-20230706	N	L2338623-01	07/06/2023	WG	A, B, C, D, E, F, G, H
DUP01-20230706	FD	L2338623-02	07/06/2023	WG	A, B, C, D, E, F, G, H
TB01-20230706	ТВ	L2338623-03	07/06/2023	WQ	С
MW-1-20230717	N	L2340792-01	07/17/2023	WG	A, B, C, D, E, F, G, H
MW-3-20230717	N	L2340792-02	07/17/2023	WG	A, B, C, D, E, F, G, H
MW-4-20230717	N	L2340792-03	07/17/2023	WG	A, B, C, D, E, F, G, H
FB-20230717	FB	L2340792-04	07/17/2023	WQ	A, B, C, D, E, F, G, H
TB-20230717	ТВ	L2340792-05	07/17/2023	WQ	С

		Method Holding Times	
A.	E1633	PFAS	14 days extraction / 28 days analysis
В.	SW8082A	PCBs	7 days extraction / 40 days analysis
C.	SW8260D	Volatile Organic Compounds (VOCs)	14 days for liquid, preserved 7 days
D.	SW8270E	Semivolatile Organic Compounds (SVOCs)	7 days extraction / 40 days analysis
E.	SW8270ESIM	SVOCs	7 days extraction / 40 days analysis
F.	SW6020B	Metals	180 days
G.	SW7470A	Mercury (in Liquids)	28 days extraction / 48 hours analysis
Н.	SW8081B	Pesticides	7 days extraction / 40 days analysis
*Holdi	ing time specified by	NYSDEC Guidance.	



1.2 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

Lab ID	Method	Analyte	Qualification
L2340792-01 and L2340792-02	SW8270ESIM	All SVOCs	The laboratory reanalyzed the samples due to a method blank detection for naphthalene. As the re-extracted results were similar to the original results, the original results are marked accepted, and the reanalyzed results are marked nonreportable.

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

The RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific QAPP.

1.5 SURROGATE RECOVERY COMPLIANCE

<u>Refer to Section E 1.2.</u> The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control limits, with the following exceptions:

Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
8270ESIM	MW-1- 20230717	L2340792-01	Nitrobenzene-d5	1x	121%	J+/None target compounds*
8270ESIM	MW-1- 20230717	L2340792-01	2,4,6- Tribromophenol	1x	187%	J+/None target compounds**
8270ESIM	MW-3- 20230717	L2340792-02	2,4,6- Tribromophenol	1x	173%	J+/None target compounds**
8270ESIM	MW-4- 20230717	L2340792-03	2,4,6- Tribromophenol	1x	158%	J+/None target compounds**
8270ESIM	FB-20230717	L2340792-04	2,4,6- Tribromophenol	1x	178%	J+/None target compounds**
8270ESIM	MW-1- 20230717	L2340792-01	Nitrobenzene-d5	1x	131%	J+/None target compounds*
8270ESIM	MW-1- 20230717	L2340792-01	2,4,6- Tribromophenol	1x	196%	J+/None target compounds**
8270ESIM	MW-3- 20230717	L2340792-02	Nitrobenzene-d5	1x	150%	J+/None target compounds*



Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
8270ESIM	MW-3- 20230717	L2340792-02	2,4,6- Tribromophenol	1x	227%	J+/None target compounds**

^{*}Compounds targeted by Nitrobenzene-d5: 1,4-Dioxane, Anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, Acenaphthylene, Chrysene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(a)anthracene, Hexachloroethane, Hexachlorobutadiene, Naphthalene, 2-Methylnaphthalene, 2-Chloronaphthalene, Hexachlorobenzene, Pyrene, Benzo(b)fluoranthene, Fluoranthene, Acenaphthene, Phenanthrene, and Fluorene.

1.6 LABORATORY CONTROL SAMPLES

<u>Refer to Section E 1.3</u>. Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits with the following exceptions:

SDG #	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
L2338623	LCS/LCSD	8270E	WG1800839	4-Chloroaniline	38%/36%	J-/R	L2338623- 01 and -02
L2338623	LCS	8270E	WG1800839	4-Nitrophenol	82%	J+/None	None, samples are non- detect (ND)
L2340792	LCS/LCSD	8270E	WG1805644	4-Nitrophenol	93%/90%	J+/None	None, samples are ND
L2340792	LCSD	8270E	WG1805644	Benzoic Acid	0%	J-/R	L2338623- 01 through -04
L2340792	LCS	SW6020B	WG1804510	Copper	156%	J+/None	L2338623- 01 through -03
L2338623	LCS	E1633	WG1806226	Perfluorononanoic acid	140%/145%	1\n1	L2338623- 01, L2338623- 02

1.7 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Methods
L2338623-01	MW-2-20230717	A, B, C, D, E, F, G, H



^{**}Compounds targeted by 2,4,6-Tribromophenol: Pentachlorophenol

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MSD	SW8260D	MW-2- 20230717	Chloromethane	132%	J/None	L2338623-01
MS/MSD	SW8270E	MW-2- 20230717	3,3'-Dichlorobenzidine	0%/0%	J/R	L2338623-01
MS/MSD	SW8270E	MW-2- 20230717	2,4-Dinitrotoluene	RPD = 34	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	2,6-Dinitrotoluene	RPD = 31	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	NDPA/DPA	RPD = 32	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	n-Nitrosodi-n- propylamine	RPD = 33	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	Butyl benzyl phthalate	RPD = 40	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	Dimethyl phthalate	RPD = 35	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	Biphenyl	RPD = 31	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	4-Chloroaniline	27%/21%	J/R	L2338623-01
MS/MSD	SW8270E	MW-2- 20230717	2-Nitroaniline	RPD = 37	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	3-Nitroaniline	RPD =32	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	4-Nitroaniline	43%/31%/ RPD = 33	J/R	L2338623-01
MS/MSD	SW8270E	MW-2- 20230717	Acetophenone	RPD = 34	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	2,4,6-Trichlorophenol	RPD = 34	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	p-Chloro-m-cresol	RPD = 33	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	2,4-Dichlorophenol	RPD = 31	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	2,4-Dimethylphenol	RPD = 34	J/None	None, sample is ND
MS	SW8270E	MW-2- 20230717	4-Nitrophenol	100%	J/None	None, sample is ND



Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS/MSD	SW8270E	MW-2- 20230717	2,4-Dinitrophenol	RPD = 34	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	4,6-Dinitro-o-cresol	RPD = 45	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	2,4,5-Trichlorophenol	RPD = 36	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	Benzyl Alcohol	RPD = 33	J/None	None, sample is ND
MS/MSD	SW8270E	MW-2- 20230717	Carbazole	RPD = 31	J/None	None, sample is ND
MSD	SW8270ESIM	MW-2- 20230717	Acenaphthene	0%, RPD = 92	J/R	L2338623-01
MSD	SW8270ESIM	MW-2- 20230717	1,4-Dioxane	141%	J/None	L2338623-01
MS/MSD	SW6020B	MW-2- 20230717	Calcium	50%/10%	NA	None, native sample > 4x the spike added
MS/MSD	SW6020B	MW-2- 20230717	Iron	60%/0%	NA	None, native sample > 4x the spike added
MSD	SW6020B	MW-2- 20230717	Magnesium	72%	1/UJ	L2338623-01 and L2338623- 02
MS/MSD	SW6020B	MW-2- 20230717	Sodium	0%/0%	NA	None, native sample > 4x the spike added
MS	E1633	MW-2- 20230717	PFPeA	134%	1/UJ	L2338623-01
MS	E1633	MW-2- 20230717	PFOA	134%	า/บา	L2338623-01
MS/MSD	E1633	MW-2- 20230717	PFDS	56%/58%	J/UJ	L2338623-01
MSD	E1633	MW-2- 20230717	NMeFOSAA	137%	า/บา	L2338623-01



1.8 BLANK SAMPLE ANALYSIS

<u>Refer to Section E 1.5.</u> Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

Blank Type	Batch ID	Analyte Detected in Blank	nalyte Detected in Blank Concentration (µg/L)		Affected Samples
Method Blank	WG1801016	2-Methylnaphthalene	0.04 J	RL U	L2338623-01 and L2338623-02
Method Blank	WG1805644	Naphthalene	1.2 J	NA	No target analytes reported
Method Blank	WG1806000	Acenaphthene	0.02 J	RL U	L2340792-01 and L2340792-02
Method Blank	WG1806000	Naphthalene	0.89	J+	L2340792-01 and L2340792-02
Method	WC1806000	2 Mathylpaphthalana	0.06 J	RL U	L2340792-01
Blank	WG1806000	2-Methylnaphthalene	0.00 J	J+	L2340792-02

Instrument blank samples had no detections, indicating that no contamination occurred during analysis.

The analysis of the blank samples for field quality control was free of target compounds, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
Field Blank	7/17/2023	Benzo(b)fluoranthene	0.01 J	NA	None, samples are ND
Field Blank	7/17/2023	Sodium	0.0901 J	NA	None, samples are >10x blank
Field Blank	7/17/2023	Barium	0.00090	NA	None, samples are >10x blank

1.9 DUPLICATE SAMPLE ANALYSIS

<u>Refer to Section E 1.6.</u> The following sample was used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL):

Lab Sample Number	Laboratory Duplicate Sample Client ID	Methods		
L2340792-01	MW-1-20230717	SW7470A, SW6020B		



The following sample was used for field duplicate analysis. RPDs were all below 35 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Methods				
MW-2-20230706	DUP01-20230706	A, B, C, D, E, F, G, H				

Field Duplicate RPD Calculations:

Method	Primary Duplicate Sample ID Sample ID DUP01- 20230706	% RPD	Qualification		
SW8270ESI M	Naphthalene	0.52	0.22	NA	J/UJ, Abs. Diff. > RL
SW8270ESI M	Phenanthrene	0.38	0.03	NA	J/UJ, Abs. Diff. > RL
SW8270ESI M	Acenaphthene	17	9.8	54	J/UJ, RPD>35
SW8270ESI M	Fluorene	2.9	0.74	119	J/UJ, RPD>35
E1633	Perfluorooctanoic acid (PFOA)	105	69.7	40	J/UJ, RPD>35
E1633	Perfluoropentanoic acid (PFPeA)	60	22.1	92	J/UJ, RPD>35
E1633	US EPA PFAS (PFOS + PFOA)	105	69.7	40	J/UJ, RPD>35
E1633	Perfluorobutanoic acid (PFBA)	33.6	22.7	NA	J/UJ, Abs. Diff. > RL
E1633	Perfluorohexanesulfonic acid (PFHxS)	5.27	0.502	NA	J/UJ, Abs. Diff. > RL

1.10 PFAS SAMPLE PREPARATION

<u>Refer to Section E 1.14.</u> The entire sample plus sample bottle rinsate was extracted. No data qualification required.

1.11 PFAS IDENTIFICATION

Refer to Section E 1.15. Ion ratios were reviewed and were within the limits of 50 to 150 percent.

The laboratory's SOP was reviewed and the reviewer confirmed that, when applicable, the laboratory's procedure is to sum the branched and linear peaks.



1.12 EXTRACTION INTERNAL STANDARDS

<u>Refer to Section E 1.16.</u> Recoveries were reviewed and found to be within the limits of 50 to 150 percent of the initial calibration midpoint standard/initial continuing calibration verification, with the following exceptions:

Sample ID	Standard Name	%Recovery	Qualifier	Affected Samples
MW-2-20230706	1H,1H,2H,2H-Perfluoro[1,2- 13C2]Octanesulfonic Acid (13C2-6:2 FTS)	238%	า/บา	L2338623-01
MW-2-20230706	1H,1H,2H,2H-Perfluoro[1,2- 13C2]Decanesulfonic Acid (13C2-8:2 FTS)	186%	า/บา	L2338623-01
DUP01-20230706	1H,1H,2H,2H-Perfluoro[1,2- 13C2]Decanesulfonic Acid (13C2-8:2 FTS)	162%	า/บา	L2338623-02
DUP01-20230706	1H,1H,2H,2H-Perfluoro[1,2- 13C2]Octanesulfonic Acid (13C2-6:2 FTS)	177%	า/บา	L2338623-02
MW-3-20230717	1H,1H,2H,2H-Perfluoro[1,2- 13C2]Octanesulfonic Acid (13C2-6:2 FTS)	180%	า/บา	L2340792-02
MW-3-20230717	1H,1H,2H,2H-Perfluoro[1,2- 13C2]Decanesulfonic Acid (13C2-8:2 FTS)	185%	า/บา	L2340792-02

1.13 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable except for rejected data noted below. A summary of qualifiers applied to this data set is shown in the attached Table 1.



2. Precision and Accuracy

<u>Refer to Section E 1.7.</u> Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.



3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
 - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Analysis of PFAS compliant with QSM 5.3 Table B-15 requires instrument blanks that are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess contamination that could occur in the LC/MS/MS instrument.
 - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the
 analysis to demonstrate acceptable method precision. The RPD or absolute difference
 was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
 - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory



- duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

E 1.13 QLC/MS/MS Tune Check

 Analysis of PFAS requires a tune check for the mass calibration. Mass calibration range must bracket the ion masses of interest.

• E 1.14 PFAS Sample Preparation

Analysis of PFAS requires specific sample preparation. Aqueous samples must be prepared using Solid Phase Extraction (SPE), unless samples are known to contain high PFAS concentrations or the samples are injected directly into the LC/MS/MS instrument. Samples with greater than 1 percent solids may require centrifugation prior to SPE. The entire sample plus bottle rinsate must be extracted using SPE. If high PFAS concentrations are known, the samples may alternately be prepared using serial dilution performed in duplicate. If prepared by serial dilution, there must be documented project approval for this deviation.

E 1.15 PFAS Identification

- Identification of PFAS requires dual confirmation. The chemical derivation of the ion transitions must be documented. A minimum of two ion transitions per analyte are required (except for PFBA and PFPeA). Ratios of the quantitation ion to the confirmation ion should be calculated for samples and be within 50 to 150 percent of the ratios of the quantitation ion to the confirmation ion for standards.
- Identification of PFAS also requires the proper assessment of branched and linear peaks.
 Standards for both isomers are not currently available for every PFAS compound,
 resulting in the common error of quantifying the area of only the branched or the linear isomers, which results in erroneous concentrations.

• E 1.16 Extraction Internal Standards

 Analysis of PFAS by isotope dilution includes the use of extracted internal standards, which are stable isotope analogs of the PFAS compounds of interest added to each sample prior to extraction of the sample matrix. Matrix interferences that affect the quantification of the internal standard will affect the calculated target compound concentrations.



4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

Sample Types:

EB Equipment Blank Sample
FB Field Blank Sample
FD Field Duplicate Sample
N Primary Sample
TB Trip Blank Sample

Units:

μg/kg micrograms per kilogram
 μg/L micrograms per liter
 μg/m³ micrograms per cubic meter

mg/kg milligrams per kilogrammg/L milligrams per liter

ppb v/v parts per billion volume/volume

pCi/L picocuries per literpg/g picograms per gram

Matrices:

AA Ambient Air
GS Soil Gas
GW/WG Groundwater
QW Water Quality
IA Indoor Air
SE Sediment
SO Soil

SSV Sub-slab Vapor

WQ Water Quality control matrix

WS Surface Water

Table Footnotes:

NA Not applicableND Non-detectNR Not reported

Common Symbols:

– % percent– < less than

– ≤ less than or equal to

- > greater than

- ≥ greater than or equal to

- = equal

C degrees Celsius
± plus or minus
~ approximately
x times (multiplier)



5. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of
amu	atomic mass unit		Environmental Conservation
BPJ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
CCB	Continuing Calibration Blank	PDS	Post-Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
	Low	PFBA	Perfluorbutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R^2	R-squared value
EMPC	Estimated Maximum Possible	Ra-226	Radium-226
	Concentration	Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass	RRF	Relative Response Factor
	Spectrometry	RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	Sampling Analysis Plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedure
ICB	Initial Calibration Blank	SPE	Solid-Phase Extraction
ICP/MS	Inductively Coupled Plasma/Mass	SVOC	Semi-Volatile Organic Compound
	Spectrometry	TCLP	Toxicity Characteristic Leaching
ICV	Initial Calibration Verification		Procedure
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory	TPU	Total Propagated Uncertainty
	Control Sample Duplicate	USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compound
MDC	Minimum Detectable Concentration	WP	Work Plan



6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

Concentration (C) Qualifiers:

- U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
- B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

Quantitation (Q) Qualifiers:

- E The compound was quantitated above the calibration range.
- D The concentration is based on a diluted sample analysis.

Validation Qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
- UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
- NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
- R The sample results were rejected as unusable; the compound may or may not be present in the sample.
- S Result is suspect. See DUSR for details.



References

- 1. Haley & Aldrich, Inc, 2023. Quality Assurance Project Plan. Remedial Investigation Work Plan. Former A&A Brake Service Site. NYSDEC BCP Site C224372. Brooklyn New York. March.
- 2. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
- 3. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.
- United States Environmental Protection Agency, 2018. Data Review and Validation Guidelines for Perfluroalkyl Substances (PFASs) Analyzed Using EPA Method 537. EPA 910-R-18-001. November.
- 5. New York State Department of Environmental Conservation (NYSDEC), 2021. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances Under NYSDEC's Part 375 Remedial Programs. January.



TABLES

TABLE 1
SYSTEM PERFORMANCE SUMMARY
FORMER A&A BRAKE SERVICE SITE
BROOKLYN, NEW YORK

							Reportable	Reported	Validated	Reason for
SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Result	Result	Result	Qualifier
L2338623	E1633	NA	DUP01-20230706	L2338623-02	Perfluorobutanoic acid (PFBA)	N	Yes	22.7	22.7 J	FDP
L2338623	E1633	NA	DUP01-20230706	L2338623-02	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	0.502 J	0.502 J	FDP
L2338623	E1633	NA	DUP01-20230706	L2338623-02	Perfluorooctanoic acid (PFOA)	N	Yes	69.7	69.7 J	FDP
L2338623	E1633	NA	DUP01-20230706	L2338623-02	Perfluoropentanoic acid (PFPeA)	N	Yes	22.1	22.1 J	FDP
L2338623	E1633	NA	DUP01-20230706	L2338623-02	US EPA PFAS (PFOS + PFOA)	N	Yes	69.7	69.7 J	FDP
L2338623	SW8270ESIM	NA	DUP01-20230706	L2338623-02	Acenaphthene	N	Yes	9.8	9.8 J	FDP
L2338623	SW8270ESIM	NA	DUP01-20230706	L2338623-02	Fluorene	N	Yes	0.74	0.74 J	FDP
L2338623	SW8270ESIM	NA	DUP01-20230706	L2338623-02	Naphthalene	N	Yes	0.22	0.22 J	FDP
L2338623	SW8270ESIM	NA	DUP01-20230706	L2338623-02	Phenanthrene	N	Yes	0.03 J	0.03 J	FDP
L2338623	E1633	NA	MW-2-20230706	L2338623-01	Perfluorobutanoic acid (PFBA)	N	Yes	33.6	33.6 J	FDP
L2338623	E1633	NA	MW-2-20230706	L2338623-01	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	5.27	5.27 J	FDP
L2338623	E1633	NA	MW-2-20230706	L2338623-01	US EPA PFAS (PFOS + PFOA)	N	Yes	105	105 J	FDP
L2338623	SW8270ESIM	NA	MW-2-20230706	L2338623-01	Fluorene	N	Yes	2.9	2.9 J	FDP
L2338623	SW8270ESIM	NA	MW-2-20230706	L2338623-01	Naphthalene	N	Yes	0.52	0.52 J	FDP
L2338623	SW8270ESIM	NA	MW-2-20230706	L2338623-01	Phenanthrene	N	Yes	0.38	0.38 J	FDP
L2338623	SW8270ESIM	NA	MW-2-20230706	L2338623-01	Acenaphthene	N	Yes	17	17 J	FDP, MSD
L2338623	E1633	NA	DUP01-20230706	L2338623-02	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	IDL
L2338623	E1633	NA	DUP01-20230706	L2338623-02	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	IDL
L2338623	E1633	NA	MW-2-20230706	L2338623-01	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	IDL
L2338623	E1633	NA	MW-2-20230706	L2338623-01	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	IDL
L2340792	E1633	NA	MW-3-20230717	L2340792-02	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	IDL
L2340792	E1633	NA	MW-3-20230717	L2340792-02	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	IDL
L2338623	E1633	NA	DUP01-20230706	L2338623-02	Perfluorononanoic acid (PFNA)	N	Yes	1.59 J	1.59 J	LCS
L2338623	SW8270E	NA	DUP01-20230706	L2338623-02	4-Chloroaniline	N	Yes	U	R	LCS
L2340792	SW8270E	NA	FB-20230717	L2340792-04	Benzoic acid	N	Yes	U	R	LCS
L2340792	SW6020B	NA	MW-1-20230717	L2340792-01	Copper	Т	Yes	0.00468	0.00468 J+	LCS
L2340792	SW8270E	NA	MW-1-20230717	L2340792-01	Benzoic acid	N	Yes	U	R	LCS
L2338623	E1633	NA	MW-2-20230706	L2338623-01	Perfluorononanoic acid (PFNA)	N	Yes	1.6	1.6 J	LCS
L2340792	SW6020B	NA	MW-3-20230717	L2340792-02	Copper	Т	Yes	0.02251	0.02251 J+	LCS
L2340792	SW8270E	NA	MW-3-20230717	L2340792-02	Benzoic acid	N	Yes	U	R	LCS
L2340792	SW6020B	NA	MW-4-20230717	L2340792-03	Copper	Т	Yes	0.00267	0.00267 J+	LCS
L2340792	SW8270E	NA	MW-4-20230717	L2340792-03	Benzoic acid	N	Yes	U	R	LCS
L2338623	SW8270E	NA	MW-2-20230706	L2338623-01	4-Chloroaniline	N	Yes	U	R	LCS, MSD

TABLE 1
SYSTEM PERFORMANCE SUMMARY
FORMER A&A BRAKE SERVICE SITE
BROOKLYN, NEW YORK

							Reportable	Reported	Validated	Reason for
SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Result	Result	Result	Qualifier
L2338623	SW8270ESIM	NA	DUP01-20230706	L2338623-02	2-Methylnaphthalene	N	Yes	0.03 J	0.1 U	MBK
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	2-Methylnaphthalene	N	Yes	0.02 J	0.1 U	MBK
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Acenaphthene	N	Yes	0.09 J	0.1 U	MBK
L2338623	SW8270ESIM	NA	MW-2-20230706	L2338623-01	2-Methylnaphthalene	N	Yes	0.09 J	0.1 U	MBK
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	2-Methylnaphthalene	N	Yes	0.13	0.13 J+	MBK
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Acenaphthene	N	Yes	0.05 J	0.1 U	MBK
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Naphthalene	N	Yes	0.41	0.41 J+	MBK
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Naphthalene	N	Yes	0.33	0.33 J+	MBK, SUR
L2338623	SW6020B	NA	DUP01-20230706	L2338623-02	Magnesium	Т	Yes	24.1	24.1 J	MSD
L2338623	E1633	NA	MW-2-20230706	L2338623-01	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	MSD
L2338623	E1633	NA	MW-2-20230706	L2338623-01	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	MSD
L2338623	SW6020B	NA	MW-2-20230706	L2338623-01	Magnesium	T	Yes	26.4	26.4 J	MSD
L2338623	SW8270E	NA	MW-2-20230706	L2338623-01	3,3'-Dichlorobenzidine	N	Yes	U	R	MSD
L2338623	SW8270E	NA	MW-2-20230706	L2338623-01	4-Nitroaniline	N	Yes	U	R	MSD
L2338623	SW8270ESIM	NA	MW-2-20230706	L2338623-01	1,4-Dioxane	N	Yes	119 J	119 J	MSD
L2338623	E1633	NA	MW-2-20230706	L2338623-01	Perfluorooctanoic acid (PFOA)	N	Yes	105	105 J	MSD, FDP
L2338623	E1633	NA	MW-2-20230706	L2338623-01	Perfluoropentanoic acid (PFPeA)	N	Yes	60	60 J	MSD, FDP
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	2-Methylnaphthalene	N	No	0.06 J	0.06 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Acenaphthene	N	No	0.25	0.25 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Acenaphthylene	N	Yes	0.05 J	0.05 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Acenaphthylene	N	No	0.09 J	0.09 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Anthracene	N	Yes	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Anthracene	N	No	0.04 J	0.04 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Benzo(a)anthracene	N	Yes	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Benzo(a)pyrene	N	No	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Benzo(b)fluoranthene	N	No	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Benzo(g,h,i)perylene	N	No	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Benzo(k)fluoranthene	N	No	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Dibenz(a,h)anthracene	N	No	0.01 J	0.01 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Fluoranthene	N	No	0.03 J	0.03 J+	SUR

TABLE 1 SYSTEM PERFORMANCE SUMMARY

FORMER A&A BRAKE SERVICE SITE BROOKLYN, NEW YORK

							Reportable	Reported	Validated	Reason for
SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Result	Result	Result	Qualifier
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Fluorene	N	Yes	0.01 J	0.01 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Fluorene	N	No	0.03 J	0.03 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Indeno(1,2,3-cd)pyrene	N	No	0.01 J	0.01 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Naphthalene	N	No	1.2	1.2 J+	SUR
L2340792	SW8270ESIM	NA	MW-1-20230717	L2340792-01	Phenanthrene	N	No	0.05 J	0.05 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	2-Methylnaphthalene	N	No	0.1 J	0.1 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Acenaphthene	N	No	0.03 J	0.03 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Acenaphthylene	N	No	0.04 J	0.04 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Anthracene	N	No	0.06 J	0.06 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Benzo(a)anthracene	N	No	0.04 J	0.04 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Benzo(a)pyrene	N	No	0.04 J	0.04 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Benzo(b)fluoranthene	N	No	0.04 J	0.04 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Benzo(g,h,i)perylene	N	No	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Benzo(k)fluoranthene	N	No	0.02 J	0.02 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Chrysene	N	No	0.04 J	0.04 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Fluoranthene	N	No	0.05 J	0.05 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Indeno(1,2,3-cd)pyrene	N	No	0.03 J	0.03 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Naphthalene	N	No	0.66	0.66 J+	SUR
L2340792	SW8270ESIM	NA	MW-3-20230717	L2340792-02	Phenanthrene	N	No	0.04 J	0.04 J+	SUR

Notes

FDP = Field duplicate qualifier due to an exceedance of the specified limits.

IDL = Isotope dilution outside the specified limits.

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

J+ = The result is an estimated quantity, but the result may be biased high.

LCS = Laboratory control/laboratory control spike duplicate percent recoveries or relative percent difference were outside the specified limits.

MBK = Method blank contamination.

MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.

R = The sample results were rejected as unusable; the compound may or may not be present in the sample.

SDG = sample delivery group

 $SUR = Surrogate\ percent\ recovery\ outside\ the\ specified\ limits.$

U = The compound was analyzed for but not detected.

UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.





Data Usability Summary Report

Project Name: Sackett Street

Project Description: Groundwater Samples

Sample Date(s): 6 July through 17 July 2023

Analytical Laboratory: Alpha Analytical - Westborough, MA

Validation Performed by: Kirkland Broadwell
Validation Reviewed by: Katherine Miller

Validation Date: 8 August 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Number L2343860
- 2. Explanations
- 3. Glossary
- 4. Abbreviations
- 5. Qualifiers

References.

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines for Inorganic Data Review; and
- The project-specific Quality Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and therefore usable; any exceptions are noted in the following pages.



1. Sample Delivery Group Number L2343860

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

L2343860, dated 4 August 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

Custody seals were not used on the sample coolers.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
MW-2-20230706	N	L2343860-01	07/06/2023	WG	А, В
DUP01-20230706	FD	L2343860-02	07/06/2023	WG	A, B
MW-1-20230717	N	L2343860-03	07/17/2023	WG	А, В
MW-3-20230717	N	L2343860-04	07/17/2023	WG	А, В
MW-4-20230717	N	L2343860-05	07/17/2023	WG	А, В
FB-20230717	N	L2343860-06	07/17/2023	WQ	А, В

		Method Holding Times	
A.	SW6020B	Metals	180 days for liquid, preserved
В.	SW7470A	Mercury (in Liquids)	28 days extraction / 48 hours analysis for liquid, preserved

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

The RLs for the samples within this SDG met or were below the minimum RL requirements specified by the project-specific QAPP.

1.4 LABORATORY CONTROL SAMPLES

<u>Refer to Section E 1.3</u>. Compounds associated with the laboratory control samples (LCS) analyses associated with client samples exhibited recoveries within the specified limits.



1.5 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
L2343860-01	MW-2-20230706	SW6020B, SW7470A

The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits, with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS/MSD	SW6020B	MW-2-20230706	Calcium	60%/0%	NA	None, native sample > 4x the spike added
MSD	SW6020B	MW-2-20230706	Magnesium	74%	1/UJ	All samples in SDG
MSD	SW6020B	MW-2-20230706	Sodium	0%	NA	None, native sample > 4x the spike added

1.6 BLANK SAMPLE ANALYSIS

<u>Refer to Section E 1.5.</u> Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:

Blank Type	Batch ID	Analyte Detected in Blank	Concentration (mg/L)	Qualifier	Affected Samples
	WG1809983	Aluminum	0.0129 J	RL U	L2343860-01 through -04, -06
Method Blank	WG1809983	Chromium	0.00150 J	RL U	L2343860-01 through -05
	WG1809983	Manganese	0.00047 J	NA	None, samples are >10x blank

The analysis of the blank samples for field quality control was free of target compounds, with the following exceptions:

Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/L)	Qualifier	Affected Samples
		Aluminum	0.00994 J	RL U	L2343860-01 through -04, -06
Field Blank	7/17/2023	Barium	0.00063	NA	None, samples are >10x blank
		Calcium	0.0454 J	NA	None, samples are >10x blank



Blank Type	Date of Blank	Analyte Detected in Blank	Concentration (mg/L)	Qualifier	Affected Samples
		Sodium	0.472	NA	None, samples are >10x blank

1.7 DUPLICATE SAMPLE ANALYSIS

<u>Refer to Section E 1.6.</u> The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

The following sample was used for field duplicate analysis. RPDs were all below 35 percent (or the absolute difference rule was satisfied if detects were less than five times the RL). Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Methods
MW-2-20230706	DUP01-20230706	SW6020B, SW7470A

Field Duplicate RPD Calculations:

Methods: SW6020B, SW7470A						
Analyte	0/ DDD	Ovelitiestien				
(mg/L)	MW-2-20230706	MW-2-20230706 DUP01-20230706 % RPD Qualificat				
Barium	0.1049	0.06914	41	J/UJ, RPD>35		

1.8 PRECISION AND ACCURACY

<u>Refer to Section E 1.7.</u> Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

1.9 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. The qualifiers applied to this dataset are summarized in the table below.

Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
MW-2-20230706	Sodium	158	158 J	MSD % recovery low
DUP01-20230706	Sodium	148	148 J	MSD % recovery low
FB-20230717	Sodium	0.472	0.472 J	MSD % recovery low
MW-1-20230717	Sodium	227	227 J	MSD % recovery low
MW-3-20230717	Sodium	122	122 J	MSD % recovery low
MW-4-20230717	Sodium	105	105 J	MSD % recovery low
DUP01-20230706	Chromium	0.00025	RL U	Method blank detection
MW-2-20230706	Chromium	0.00024	RL U	Method blank detection
MW-1-20230717	Chromium	0.00044	RL U	Method blank detection
MW-3-20230717	Chromium	0.00103	RL U	Method blank detection



Sample ID	Analyte	Reported Result	Validated Result	Reason for Qualifier
MW-4-20230717	Chromium	0.00159	RL U	Method blank detection
MW-2-20230706	Aluminum	0.0107	RL U	Method blank and field blank detection
DUP01-20230706	Aluminum	0.00424	RL U	Method blank and field blank detection
FB-20230717	Aluminum	0.00994	RL U	Method blank and field blank detection
MW-1-20230717	Aluminum	0.0104	RL U	Method blank and field blank detection
MW-3-20230717	Aluminum	0.00328	RL U	Method blank and field blank detection
MW-2-20230706	Barium	0.1049	0.1049	Field duplicate calculations
DUP01-20230706	Barium	0.06914	0.06914	Field duplicate calculations



2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

E 1.3 Laboratory Control Samples

 The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.

E 1.4 Matrix Spike Samples

- MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
- For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a PDS is performed.

• E 1.5 Blank Sample Analysis

- Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.

E 1.6 Laboratory and Field Duplicate Sample Analysis

- The laboratory duplicate sample analysis is used by the laboratory at the time of the
 analysis to demonstrate acceptable method precision. The RPD or absolute difference
 was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

E 1.7 Precision and Accuracy

- Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, an MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike, MS, and/or surrogate recoveries.



3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

Sample Types:

EB Equipment Blank Sample
FB Field Blank Sample
FD Field Duplicate Sample
N Primary Sample
TB Trip Blank Sample

• Units:

μg/kg micrograms per kilogram
 μg/L micrograms per liter
 μg/m³ micrograms per cubic meter

mg/kg milligrams per kilogrammg/L milligrams per liter

ppb v/v parts per billion volume/volume

pCi/L picocuries per literpg/g picograms per gram

Matrices:

AA Ambient Air
GS Soil Gas
GW/WG Groundwater
QW Water Quality
IA Indoor Air
SE Sediment
SO Soil

SSV Sub-slab Vapor

WQ Water Quality control matrix

WS Surface Water

Table Footnotes:

NA Not applicableND Non-detectNR Not reported

Common Symbols:

– % percent– < less than

– ≤ less than or equal to

– > greater than

- ≥ greater than or equal to

– = equal

C degrees Celsius
± plus or minus
~ approximately
x times (multiplier)

Fractions:

N Normal (method cannot be filtered)

D Dissolved (filtered)T Total (unfiltered)



4. Abbreviations

%DPercent DifferenceMDLLaboratory Method Detection Limit%RPercent RecoveryMS/MSDMatrix Spike/Matrix Spike Duplicate%RSDPercent Relative Standard DeviationNAnot applicable%v/vPercent volume by volumeNDNon-Detect2s2 sigmaNFGNational Functional Guidelines4,4-DDT4 4-dichlorodiphenyltrichloroethaneNH₃AmmoniaAbs DiffAbsolute DifferenceNYSDECNew York State Department ofamuatomic mass unitEnvironmental Conservation
%RSDPercent Relative Standard DeviationNAnot applicable%v/vPercent volume by volumeNDNon-Detect2s2 sigmaNFGNational Functional Guidelines4,4-DDT4 4-dichlorodiphenyltrichloroethaneNH3AmmoniaAbs DiffAbsolute DifferenceNYSDECNew York State Department of
%v/vPercent volume by volumeNDNon-Detect2s2 sigmaNFGNational Functional Guidelines4,4-DDT4 4-dichlorodiphenyltrichloroethaneNH3AmmoniaAbs DiffAbsolute DifferenceNYSDECNew York State Department of
2s2 sigmaNFGNational Functional Guidelines4,4-DDT4 4-dichlorodiphenyltrichloroethaneNH3AmmoniaAbs DiffAbsolute DifferenceNYSDECNew York State Department of
4,4-DDT 4 4-dichlorodiphenyltrichloroethane NH ₃ Ammonia Abs Diff Absolute Difference NYSDEC New York State Department of
Abs Diff Absolute Difference NYSDEC New York State Department of
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BPJ Best Professional Judgement PAH Polycyclic Aromatic Hydrocarbon
BS Blank Spike PCB Polychlorinated Biphenyl
CCB Continuing Calibration Blank PDS Post-Digestion Spike
CCV Continuing Calibration Verification PEM Performance Evaluation Mixture
CCVL Continuing Calibration Verification PFAS Per- and Polyfluoroalkyl Substances
Low PFBA Perfluorbutanoic Acid
COC Chain of Custody PFD Perfluorodecalin
COM Combined Isotope Calculation PFOA Perfluorooctanoic Acid
Cr (VI) Hexavalent Chromium PFOS Perfluorooctanoic Actu
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DQO data quality objective QC Quality Control
DUSR Data Usability Summary Report QSM Quality Systems Manual EIS Extraction Internal Standard R ² R-squared value
EMPC Estimated Maximum Possible Ra-226 Radium-226
Concentration Ra-228 Radium-228
FBK Field Blank Contamination RESC Resolution Check Measure
FDP Field Duplicate RL Laboratory Reporting Limit
GC Gas Chromatograph RPD Relative Percent Difference
GC/MS Gas Chromatography/Mass RRF Relative Response Factor
Spectrometry RT Retention Time
GPC Gel Permeation Chromatography SAP Sampling Analysis Plan
H ₂ Hydrogen gas SDG Sample Delivery Group
HCl Hydrochloric Acid SIM Selected ion monitoring
ICAL Initial Calibration SOP Standard Operating Procedure
ICB Initial Calibration Blank SPE Solid-Phase Extraction
ICP/MS Inductively Coupled Plasma/Mass SVOC Semi-Volatile Organic Compound
Spectrometry TCLP Toxicity Characteristic Leaching
ICV Initial Calibration Verification Procedure
ICVL Initial Calibration Verification Low TIC Tentatively Identified Compound
IPA Isopropyl Alcohol TKN Total Kjeldahl Nitrogen
LC Laboratory Control TPH Total Petroleum Hydrocarbon
LCS/LCSD Laboratory Control Sample/Laboratory TPU Total Propagated Uncertainty
Control Sample Duplicate USEPA U.S. Environmental Protection Agency
MBK Method Blank Contamination VOC Volatile Organic Compound
MDC Minimum Detectable Concentration WP Work Plan



5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

Concentration (C) Qualifiers:

- U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
- B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

Quantitation (Q) Qualifiers:

- E The compound was quantitated above the calibration range.
- D The concentration is based on a diluted sample analysis.

Validation Qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
- UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
- NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
- R The sample results were rejected as unusable; the compound may or may not be present in the sample.
- S Result is suspect. See DUSR for details.



References

- 1. Haley & Aldrich, Inc, 2023. Quality Assurance Project Plan. Remedial Investigation Work Plan. Former A&A Brake Service Site. NYSDEC BCP Site C224372. Brooklyn New York. March.
- 2. United States Environmental Protection Agency, 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.





Data Usability Summary Report

Project Name: Sackett Street
Project Description: Soil Samples

Sample Date(s): 26 March 2024 through 5 April 2024

Analytical Laboratory: Alpha Analytical Laboratories, INC. – Westborough, MA

Validation Performed by: Santa McKenna Validation Reviewed by: Katherine Miller

Validation Date: 29 April 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers
- 2. Precision and Accuracy [for SDG(s) above]
- 3. Explanations
- 4. Glossary
- 5. Abbreviations
- 6. Qualifiers

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.
- Data Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using USEPA Method 537.
- Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under New York State Department of Environmental Conservation's (NYSDEC's) Part 375 Remedial Programs.
- The project-specific Assurance Project Plan (QAPP), herein referred to as the specified limits (see references section).

Data reported in this sampling event were reported to the laboratory reporting limit (RL) Results found between the MDL and RL are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.



1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number(s) L2416482, dated 9 April 2024.

- L2418246, dated 15 April 2024;
- L2418559, dated 18 April 2024; and
- L2418782, dated 4/17/2024.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

• L2416482 presents 77 samples, but only 16 samples were analyzed. The remaining samples were placed on hold by the client.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
SB-2A_0-0.5	N	L2416482-01	03/26/2024	SO	A, B, C, D, E
SB-2A_1-3	N	L2416482-02	03/26/2024	SO	A, B, C, D, E
SB-2A_3-5	N	L2416482-03	03/26/2024	SO	A, B, C, D, E
SB-2A_5-7	N	L2416482-04	03/26/2024	SO	A, B, C, D, E
SB-2A_7-9	Ν	L2416482-05	03/26/2024	SO	A, B, C, D, E
SB-2A_9-11	N	L2416482-06	03/26/2024	SO	A, B, C, D, E
SB-2A_12-14	N	L2416482-07	03/26/2024	SO	A, B, C, D, E
SB-3A_0-0.5	N	L2416482-50	03/26/2024	SO	A, B, C, D, E
SB-3A_1-3	N	L2416482-51	03/26/2024	SO	A, B, C, D, E
SB-3A_3-5	N	L2416482-52	03/26/2024	SO	A, B, C, D, E
SB-3A_5-7	N	L2416482-53	03/26/2024	SO	A, B, C, D, E
SB-3A_7-9	N	L2416482-54	03/26/2024	SO	A, B, C, D, E
SB-3A_9-11	N	L2416482-55	03/26/2024	SO	A, B, C, D, E
DUP03_20240326	FD	L2416482-74	03/26/2024	SO	A, B, C, D, E
SB-2A-S1_11-11.5	N	L2416482-76	03/26/2024	SO	A, F, G
TB-01_20240326	TB	L2416482-77	03/26/2024	WQ	F
MW-7-20240403	N	L2418246-01	04/03/2024	WG	F, G, H, I, J, K, L, M
MW-5-20240403	N	L2418246-02	04/03/2024	WG	F, G, H, I, J, K, L, M
MW-3-20240403	N	L2418246-03	04/03/2024	WG	F, G, H, I, J, K, L, M
DUP1_20240403	FD	L2418246-04	04/03/2024	WG	F, G, H, I, J, K, L, M
TRIP BLANK- 20240403	ТВ	L2418246-05	04/03/2024	WQ	F
MW-4_20240404	N	L2418559-01	04/04/2024	WG	F, G, H, I, J, K, L, M
MW-1_20240404	N	L2418559-02	04/04/2024	WG	F, G, H, I, J, K, L, M
FIELD BLANK- 20240404	FB	L2418559-03	04/04/2024	WQ	F, G, H, I, J, K, L, M



Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
TRIP BLANK- 20240402	ТВ	L2418559-04	04/02/2024	WQ	F
MW-6_20240405	N	L2418782-01	04/05/2024	WG	F, G, H, I, J, K, L, M
MW-2_20240405	N	L2418782-02	04/05/2024	WG	F, G, H, I, J, K, L, M
TRIP BLANK- 20240405	ТВ	L2418782-03	04/05/2024	WQ	F

Meth	Method Holding Times						
A.	SM2540G	Total Solids	7 days for solid unpreserved				
B.	SW6010D	Metals	180 days for solid unpreserved				
C.	SW6010DR	TCLP Metals	180 days				
D.	SW7470AR	TCLP Mercury	28 days				
E.	SW7471B	Mercury (in Solids)	28 days extraction / 48 hours analysis for				
			solid, unpreserved				
	SW8260D	Volatile Organic Compounds (VOCs)	14 days for solid, preserved 14 days for				
F.			solid unpreserved, 14 days for liquid,				
			preserved 7 days for liquid unpreserved				
	SW8270E	Semivolatile Organic Compounds (SVOCs)	14 days extraction / 40 days analysis for				
G.			solid, unpreserved, 7 days extraction /				
			40 days analysis for liquid, unpreserved				
Н.	E1633	PFAS	14 days extraction / 40 days analysis*				
	SW8270ESIM	Polycyclic Aromatic Hydrocarbons (PAHs)	7 days extraction / 40 days analysis for				
l.			liquid, unpreserved				
J.	SW6020B	Metals	180 days for liquid, preserved				
К.	SW7470A	Mercury (in Liquids)	28 days extraction / 48 hours analysis for				
1			liquid, preserved				
L.	SW8081B	Organochlorine Pesticides	14 days				
M.	SW8082A	PCBS	14 days				

^{*#} days/# days notation indicates the holding time is # days for extraction and then an additional # days for analysis.

1.2 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

	Lab ID	Analysis Date/Time	Method	Analyte	Qualification
L24	416482-76	3/29/2024 12:39:00 PM	8260D	Naphthalene	The sample required the dilution due to
L24	416482-76	3/26/2024 2:50:00 PM	8270E	2-Methylnaphthalene Naphthalene	results exceedance. The laboratory marked the original results nonreportable, and the reanalysis results were accepted.



1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below.

Sample ID	Lab ID	Analyte/ Method	Dilution Factor	Issue/Explanation
Various	Various	Various	X5, x10, x25, x100, x500	Dilution required to bring the concentration of target analytes within the calibration range.
L2418226 L2418559 L2418782	All samples	PFAS	x1	Select analyte's reporting limits above the 1633 required 2 ng/L for multiple analytes.

1.5 REPORTING BASIS (WET/DRY)

<u>Refer to Section E 1.1.</u> Where reported, percent solid results were reviewed and found to be within limits.

1.6 SURROGATE RECOVERY COMPLIANCE

<u>Refer to Section E 1.2.</u> The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits.

1.7 LABORATORY CONTROL SAMPLES

<u>Refer to Section E 1.3</u>. Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits with the following exceptions:

SDG #	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
L2416482	LCSD	8260D	WG1903826- 4	2-Butanone	67%	า/บา	L2416482- 76
L2416482	LSC/LCSD	8260D	WG1903826- 3, -4	2-Hexanone	68%/63%	า/บา	L2416482- 76
L2416482	LSC	8270E	WG1902900- 2	Carbazole	48%	า/บา	L2416482- 76
L2416482	LSC/LCSD	8270E	WG1902900- 2, -3	1,4-Dioxane	35%/44%	า/บา	L2416482- 76
L2418246	LSC/LCSD	8260D	WG1906529- 3, -4	p/m-Xylene	21 RPD	J/None	L2418246- 01 through - 05



SDG #	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
L2418559	LCSD	8270E	WG1905320- 3	4-Nitrophenol	82%	J/None	None, samples are ND
L2418559	LCS	8270E	WG1905779- 2	Hexachlorobutadiene	38%	า/บา	L2418559- 01
L2418559	LCS	8270E	WG1905779- 2	Acenaphthylene	43%	า/บา	L2418559- 01
L2418559	LCS	8270E	WG1905779- 2	2-Nitroaniline	49%	า/บา	L2418559- 01
L2418559	LCS	8270E	WG1905779- 2	Carbazole	51%	า/บา	L2418559- 01
L2418782	LCS/LCSD	8260D	WG1907435- 3,-4	Vinyl acetate	140%/140%	J/None	None, samples are ND
L2418782	LCSD	8260D	WG1907435- 4	trans-1,4-Dichloro-2- butene	69%	1/UJ	L2418782- 01 through - 03
L2418782	LCSD	8270E	WG1906595- 3	4-Nitrophenol	81%	J/None	None, samples are ND
L2418782	LCS	6010	WG1905987- 2	Dissolved Mercury	203%	J/None	None, samples are ND
L2418559	LCS	1633	WG1908440- 2	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	43%	1/UJ	L2418559- 01 through - 03

1.8 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
L2418559-01	MW-4_20240404	SW8060D, SW8270E, SW8082A, SW8081B, SW6010D, E1633

The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits, with the following exceptions:

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS	SW6010D	MW4_20240404	Total Calcium	127%	NA	None, native sample > 4x the spike added



Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS	SW6010D	MW4_20240404	Dissolved Calcium	156%	NA	None, native sample > 4x the spike added
MSD	SW6010D	MW4_20240404	Dissolved Sodium	173%	NA	None, native sample > 4x the spike added
MS/MSD	SW6010D	MW4_20240404	Dissolved Magnesium	161%/135%	J/None	L2418559-01 through -03
MS/MSD	SW8270E	MW4_20240404	Bis(2- chloroethyl)ether	32 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	1,3-Dichlorobenzene	32 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	1,4-Dichlorobenzene	32 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	4-Chlorophenyl phenyl ether	33 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	Bis(2- chloroisopropyl)ether	31 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	Nitrobenzene	32 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	n-Nitrosodi-n- propylamine	32 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	Di-n-butylphthalate	31 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	Diethyl phthalate	33 RPD	J/None	None, sample is ND
MS	SW8270E	MW4_20240404	2-Nitroaniline	51%	า/บา	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	Acetophenone	33 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	2,4-Dichlorophenol	31 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	2,4-Dimethylphenol	35 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	2-Nitrophenol	31 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	3-Methylphenol/4- Methylphenol	31 RPD	J/None	None, sample is ND
MS/MSD	SW8270E	MW4_20240404	2,4,5-Trichlorophenol	31 RPD	J/None	None, sample is ND
MS	SW8270E	MW4_20240404	Carbazole	53%	า/บา	L2418559-001

1.9 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions:



Blank Type	Batch ID	Analyte Detected in Blank	Concentration (µg/L)	Qualifier	Affected Samples
	WG1905316-		0.06 J	J+	L2418246-03
	1	Naphthalene	0.06 J	Result U	L2418559-02
	WG1906599- 1		0.08 J	RL U	L2418782-02
	WG1905316-			J+	L2418246-01
	1	Benzo(b)fluoranthene	0.1 J	RL U	L2418246-03 L2418559-02
	WG1905316- 1	Benzo(ghi)perylene	0.05 J	J+	L2418246-01
	WG1905316- 1	Dibenzo(a,h)anthracene	0.02 J	RL U	L2418246-01
Method	WG1905316-	Indeno(1,2,3-cd)pyrene	0.04 J	J+	L2418246-01
Blank	1	indeno(1,2,5-cd)pyrene	0.04 J	RL U	L2418559-02
	WG1904914- 1	Arsenic	0.00019 J mg/L	J+	L2418246-03
	WG1904914- 1	Manganese	0.00148 J	J+	L2418246-03
	WG1906599- 1	Fluorene	0.02 J	RL U	L2418782-02
	WG1906599-	Phenanthrene	0.02 J	RL U	L2418782-02
	1	rnenanunene	0.02 3	Result U	L2418782-01
	WG1906599- 1	2-Methylnaphthalene	0.03 J	J+	L2418782-01
	WG1905591- 1	Total Arsenic	0.00023 J	NA	None, samples are >10x blank

The analysis of the blank samples for field quality control was free of target compounds.

1.10 DUPLICATE SAMPLE ANALYSIS

<u>Refer to Section E 1.6.</u> The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL):

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)	
L2416482-01	SB-2A_0-0.5	SM2540G	

The following sample(s) were used for field duplicate analysis. RPDs were all below 50 percent for soil/sediment (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.



Primary Sample ID	Duplicate Sample ID	Method(s)
SB-2A_12-14	DUDO3 20240226	SM2540G SW6010D
	DUP03_20240326	SW7470A SW7471B

Field Duplicate RPD Calculations:

Method	Analyte (mg/kg)	Primary Sample ID SB-2A_12-14	Duplicate Sample ID DUP03 20240326	% RPD	Qualification	
SW8260	1,1,1-Trichloroethane	302	109	94%	J/UJ, RPD>50	
Method	Analyte (mg/L) for SW6020	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification	
Wicthou	(μg/L) for SW8270	MW-7- 20240403	DUP1_20240403	70 Ki B	Quantication	
SW6020	Total Arsenic	0.00209	0.00294	NA	J/UJ, Abs. Diff. > RL	
SW6020	Total Cobalt	0.00067	0.00161	NA	J/UJ, Abs. Diff. > RL	
SW6020	Total Aluminum	0.523	1.63	103	J/UJ, RPD>35	
SW6020	Total Barium	0.08077	0.1177	37	J/UJ, RPD>35	
SW6020	Total Copper	0.01637	0.03729	78	J/UJ, RPD>35	
SW6020	Total Iron	0.914	2.89	104	J/UJ, RPD>35	
SW6020	Total Lead	0.01766	0.04667	90	J/UJ, RPD>35	
SW6020	Total Manganese	0.03045	0.05372	55	J/UJ, RPD>35	
SW8270	Benzo(b)fluoranthene	0.41	1.6	NA	J/UJ, Abs. Diff. > RL	
SW8270	Benzo(g,h,i)perylene	0.26	1	NA	J/UJ, Abs. Diff. > RL	
SW8270	Benzo(k)fluoranthene	0.15	0.51	NA	J/UJ, Abs. Diff. > RL	
SW8270	Dibenz(a,h)anthracene	0.06	0.2	NA	J/UJ, Abs. Diff. > RL	
SW8270	Indeno(1,2,3- cd)pyrene	0.22	0.88	NA	J/UJ, Abs. Diff. > RL	
SW8270	2-Methylnaphthalene	16	3.1	135	J/UJ, RPD>35	
SW8270	Acenaphthylene	1.2	2.5	70	J/UJ, RPD>35	
SW8270	Benzo(a)anthracene	0.67	2.2	107	J/UJ, RPD>35	
SW8270	Benzo(a)pyrene	0.54	2.2	121	J/UJ, RPD>35	
SW8270	Chrysene	0.62	2	105	J/UJ, RPD>35	
SW8270	Fluoranthene	3.1	6.2	67	J/UJ, RPD>35	
SW8270	Naphthalene	9.1	720	195	J/UJ, RPD>35	
SW8270	Phenanthrene	0.55	2.2	120	J/UJ, RPD>35	
SW8270	Pyrene	4.4	9.2	71	J/UJ, RPD>35	



1.11 PFAS SAMPLE PREPARATION

<u>Refer to Section E 1.14.</u> The laboratory's SOP was reviewed, and the reviewer confirmed it is the laboratory's procedure to use solid-phase extraction (SPE) for sample preparation.

1.12 PFAS IDENTIFICATION

<u>Refer to Section E 1.15.</u> Ion ratios could not be reviewed because the laboratory did not provide an ion ratio summary.

Peaks were reviewed and the reviewer confirmed that, when applicable, the laboratory summed the branched and linear peaks.

1.13 EXTRACTION INTERNAL STANDARDS

<u>Refer to Section E 1.16.</u> Recoveries were reviewed and found to be within the limits of 50 to 150 percent of the initial calibration (ICAL) midpoint standard/ initial continuing calibration verification (CCV), with the following exceptions:

Sample ID	Lab ID	Standard Name	%Recovery	Qualifier	Target analytes
MW-7-20240403	L2418246- 01	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	178%	J-/None	4:2FTS
MW-5-20240403	L2418246- 01	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	196%	J-/None	4:2FTS
MW-5-20240403	L2418246- 01	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Octanesulfonic Acid (13C2- 6:2FTS)	211%	J-/None	6:2FTS
MW-5-20240403	L2418246- 01	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Decanesulfonic Acid (13C2- 8:2FTS)	161%	J-/None	8:2FTS
MW-3-20240403	L2418246- 03	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	169%	J-/None	4:2FTS
DUP1_20240403	L2418246- 04	Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	47%	J+/UJ	PFHpS PFOS PFNS PFDS PFDoS
DUP1_20240403	L2418246- 04	Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	39%	J+/UJ	PFOSA
DUP1_20240403	L2418246- 04	Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	48%	J+/UJ	PFTeDA
DUP1_20240403	L2418246- 04	N-Methyl-d3-Perfluoro-1- Octanesulfonamide (D3-NMeFOSA)	40%	J+/UJ	None, target analytes not reported



DUP1_20240403	L2418246- 04	N-Ethyl-d5-Perfluoro-1- Octanesulfonamide (D5-NEtFOSA)	39%	J+/UJ	None, target analytes not
DUP1_20240403	L2418246- 04	N-Ethyl-d9- Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	48%	J+/UJ	reported None, target analytes not reported
MW-4_20240404	L2418559- 01	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	158%	J-/None	4:2FTS
MW-1_20240404	L2418559- 02	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	161%	J-/None	4:2FTS
MW-1_20240404	L2418559- 02	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Decanesulfonic Acid (13C2- 8:2FTS)	162%	J-/None	8:2FTS
MW-6_20240405	L2418782- 01	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	156%	J-/None	4:2FTS
MW-2_20240405	L2418782- 02	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Hexanesulfonic Acid (13C2- 4:2FTS)	164%	J-/None	4:2FTS
MW-2_20240405	L2418782- 02	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Octanesulfonic Acid (13C2- 6:2FTS)	199%	J-/None	6:2FTS
MW-2_20240405	L2418782- 02	1H,1H,2H,2H-Perfluoro-1-[1,2- 13C2]Decanesulfonic Acid (13C2- 8:2FTS)	171%	J-/None	8:2FTS
Method Blank	L2418782	N-Methyl-d3-Perfluoro-1- Octanesulfonamide (D3-NMeFOSA)	48%	NA	Extraction Internal Standards were out of limits but does not affect the data.
Method Blank	L2418782	N-Ethyl-d5-Perfluoro-1- Octanesulfonamide (D5-NEtFOSA)	48%	NA	Extraction Internal Standards were out of limits but does not affect the data.



1.14 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, except for rejected data noted below. A summary of qualifiers applied to this data set is shown in Table 1.



2. Precision and Accuracy [for SDG(s) above]

<u>Refer to Section E 1.7.</u> Some measurement of analytical accuracy and precision was reported for each method with the site samples.



3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry
 weight data indicate calculations were made to compensate for the moisture content of
 the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to
 each sample prior to sample preparation to determining the efficiency of the extraction
 procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Analysis of PFAS compliant with QSM 5.3 Table B-15 requires instrument blanks that are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess contamination that could occur in the LC/MS/MS instrument.
 - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis



- The laboratory duplicate sample analysis is used by the laboratory at the time of the
 analysis to demonstrate acceptable method precision. The RPD or absolute difference
 was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

E 1.7 Precision and Accuracy

- Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

E 1.14 PFAS Sample Preparation

Analysis of PFAS requires specific sample preparation. Aqueous samples must be prepared using Solid Phase Extraction (SPE), unless samples are known to contain high PFAS concentrations or the samples are injected directly into the LC/MS/MS instrument. Samples with greater than 1 percent solids may require centrifugation prior to SPE. The entire sample plus bottle rinsate must be extracted using SPE. If high PFAS concentrations are known, the samples may alternately be prepared using serial dilution performed in duplicate. If prepared by serial dilution, there must be documented project approval for this deviation.

E 1.15 PFAS Identification

- Identification of PFAS requires dual confirmation. The chemical derivation of the ion transitions must be documented. A minimum of two ion transitions per analyte are required (except for PFBA and PFPeA). Ratios of the quantitation ion to the confirmation ion should be calculated for samples and be within 50 to 150 percent of the ratios of the quantitation ion to the confirmation ion for standards.
- Identification of PFAS also requires the proper assessment of branched and linear peaks.
 Standards for both isomers are not currently available for every PFAS compound,
 resulting in the common error of quantifying the area of only the branched or the linear isomers, which results in erroneous concentrations.

E 1.16 Extraction Internal Standards

 Analysis of PFAS by isotope dilution includes the use of extracted internal standards, which are stable isotope analogs of the PFAS compounds of interest added to each sample prior to extraction of the sample matrix. Matrix interferences that affect the quantification of the internal standard will affect the calculated target compound concentrations.



4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

Sample Types:

EB Equipment Blank Sample
FB Field Blank Sample
FD Field Duplicate Sample
N Primary Sample
TB Trip Blank Sample

Units:

μg/kg micrograms per kilogram
 μg/L micrograms per liter
 μg/m³ micrograms per cubic meter
 mg/kg milligrams per kilogram

ppb v/v parts per billion volume/volume

milligrams per liter

pCi/L picocuries per liter
 pg/g picograms per gram
 pg/L picograms per liter

Matrices:

mg/L

AA Ambient Air
GS Soil Gas
GW/WG Groundwater
QW Water Quality
IA Indoor Air
SE Sediment
SO Soil

SSV Sub-slab Vapor

WQ Water Quality control matrix

WS Surface Water

Table Footnotes:

NA Not applicableND Non-detectNR Not reported

Common Symbols:

- % percent- < less than

– ≤ less than or equal to

– > greater than

greater than or equal to

– = equal

C degrees Celsius
± plus or minus
~ approximately
x times (multiplier)



• Fractions:

N Normal (method cannot be filtered)

D Dissolved (filtered)

T Total (unfiltered)



5. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of
amu	atomic mass unit		Environmental Conservation
BPJ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
CCB	Continuing Calibration Blank	PDS	Post-Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
0012	Low	PFBA	Perfluorbutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R ²	R-squared value
EMPC	Estimated Maximum Possible	Ra-226	Radium-226
21111 0	Concentration	Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RL	Laboratory Reporting Limit
GC	Gas Chromatograph	RPD	Relative Percent Difference
GC/MS	Gas Chromatography/Mass	RRF	Relative Response Factor
39,5	Spectrometry	RT	Retention Time
GPC	Gel Permeation Chromatography	SAP	Sampling Analysis Plan
H ₂	Hydrogen gas	SDG	Sample Delivery Group
HCl	Hydrochloric Acid	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedure
ICB	Initial Calibration Blank	SPE	Solid-Phase Extraction
ICP/MS	Inductively Coupled Plasma/Mass	SVOC	Semi-Volatile Organic Compound
101 / 1113	Spectrometry	TCLP	Toxicity Characteristic Leaching
ICV	Initial Calibration Verification	. 621	Procedure
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory	TPU	Total Propagated Uncertainty
_55, _555	Control Sample Duplicate	USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compound
MDC	Minimum Detectable Concentration	WP	Work Plan
11100	William Detectable Concentration	V V I	VVOIRTIUIT



6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

Concentration (C) Qualifiers:

- U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".
- B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

Quantitation (Q) Qualifiers:

- E The compound was quantitated above the calibration range.
- D The concentration is based on a diluted sample analysis.

• Validation Qualifiers:

- J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
- UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
- NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
- R The sample results were rejected as unusable; the compound may or may not be present in the sample.
- S Result is suspect. See DUSR for details.



References

- 1. Haley & Aldrich, Inc, 2023. Quality Assurance Project Plan. Remedial Investigation Work Plan. Former A&A Brake Service Site. NYSDEC BCP Site C224372. Brooklyn New York. March.
- 2. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
- 3. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.
- United States Environmental Protection Agency, 2018. Data Review and Validation Guidelines for Perfluroalkyl Substances (PFASs) Analyzed Using EPA Method 537. EPA 910-R-18-001. November.
- 5. New York State Department of Environmental Conservation (NYSDEC), 2023. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances Under NYSDEC's Part 375 Remedial Programs. April.





TABLE 1 SYSTEM PERFORMANCE SUMMARY FORMER A&A BRAKE SERVICE SITE

BROOKLYN, NEW YORK

L2416482	12416482-76 L2416482-76 L2416482-76 L2416482-76 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Naphthalene 2-Methylnaphthalene Naphthalene Lead Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene Phenanthrene	N N N N N N T T T T T T T T T T T T T T	No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	3700000 11000 11000 11000 109 1.63 0.00294 0.1177 0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67 0.54	3700000 R 11000 R 18000 R 109 J 1.63 J 0.00294 J 0.1177 J 0.00161 J 0.03729 J 2.89 J 0.04667 J 0.05372 J 0.0523 J 0.00209 J 0.00209 J 0.00077 J 0.00067 J 0.01667 J 0.01766 J 0.03045 J 32 J 0.67 J	ARA ARA ARA FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2416482 SW8270E NA	L2416482-76 L2416482-74 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Naphthalene Lead Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N	No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	18000 109 1.63 0.00294 0.1177 0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	18000 R 109 J 1.63 J 0.00294 J 0.1177 J 0.00161 J 0.03729 J 2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.08077 J 0.00637 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	ARA FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2416482-74 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Lead Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	109 1.63 0.00294 0.1177 0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	109 J 1.63 J 0.00294 J 0.1177 J 0.00161 J 0.03729 J 2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.08077 J 0.00067 J 0.01637 J 0.914 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	T T T T T T T T T T T T T T T T T T T	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	1.63 0.00294 0.1177 0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	1.63 J 0.00294 J 0.1177 J 0.00161 J 0.03729 J 2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.00209 J 0.00077 J 0.0067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246	L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Arsenic Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Aleaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	. T T T T T T T T T T T T T T T T T T T	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.00294 0.1177 0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.00209 0.0067 0.01637 0.01766 0.03045 32 0.67	0.00294 J 0.1177 J 0.0177 J 0.03729 J 2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.00067 J 0.01637 J 0.01637 J 0.0166 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Barium Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	. T T T T T T T T T T T T T T T T T T T	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.1177 0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.0067 0.01637 0.914 0.01766 0.03045 32 0.67	0.1177 J 0.00161 J 0.00161 J 0.03729 J 2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.08077 J 0.0067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-04 L2418246-04 L2418246-04 L2418246-04 L2418246-01	Cobalt Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.00161 0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.00209 0.0067 0.01637 0.914 0.01766 0.03045 32 0.67	0.00161J 0.03729J 2.89J 0.04667J 0.0537ZJ 0.0523J 0.00209J 0.08077J 0.00067J 0.01637J 0.914J 0.01766J 0.03045J 32J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-04 L2418246-04 L2418246-04 L2418246-01	Copper Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.03729 2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.00637 0.01637 0.01766 0.03045 32 0.67	0.03729 J 2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.08077 J 0.0067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-04 L2418246-04 L2418246-01	Iron Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)apyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	2.89 0.04667 0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	2.89 J 0.04667 J 0.05372 J 0.523 J 0.00209 J 0.08077 J 0.01637 J 0.01637 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B NA DUP1_20240403 L2418246 SW6020B NA DUP1_20240403 L2418246 SW6020B NA MW-7-20240403 L2418246 SW8270ESIM NA	L2418246-04 L2418246-01	Lead Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.04667 0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	0.04667 J 0.05372 J 0.523 J 0.00209 J 0.08077 J 0.0067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-04 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Manganese Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.05372 0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	0.05372 J 0.523 J 0.00209 J 0.08077 J 0.00067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Aluminum Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	0.523 0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	0.523 J 0.00209 J 0.08077 J 0.00067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Arsenic Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes	0.00209 0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	0.00209 J 0.08077 J 0.00067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Barium Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes Yes	0.08077 0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	0.08077 J 0.00067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Cobalt Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes Yes	0.00067 0.01637 0.914 0.01766 0.03045 32 0.67	0.00067 J 0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP FDP
L2418246 SW6020B	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Copper Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes Yes	0.01637 0.914 0.01766 0.03045 32 0.67	0.01637 J 0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP FDP
L2418246 SW6020B NA MW-7-20240403 L2418246 SW6020B NA MW-7-20240403 L2418246 SW6020B NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW6010D NA SB-2A 12-14 L2418246 E1633 NA DUP1_20240403 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Iron Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes Yes	0.914 0.01766 0.03045 32 0.67	0.914 J 0.01766 J 0.03045 J 32 J	FDP FDP FDP FDP
L2418246 SW6020B NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2416242 SW8270ESIM NA MW-7-20240403 L2416246 SW8270ESIM NA MW-7-20240403 L2416246 SW8270ESIM NA MW-7-20240403 L2416246 SW8270ESIM NA DUP1_20240403	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01	Lead Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes Yes	0.01766 0.03045 32 0.67	0.01766 J 0.03045 J 32 J	FDP FDP FDP
L2418246 SW6200B NA MW-7-20240403 L2418246 SW8270ESIM NA SB-2A_12-14 L2418246 E1633 NA DUP1_20240403 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L2418246 L	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2416482-07	Manganese Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes Yes	0.03045 32 0.67	0.03045 J 32 J	FDP FDP
L2418246 SW8270ESIM NA MW-7-20240403 MW-7-20240403 MW-7-20240403 MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 E1633 NA DUP1_20240403 L2418246	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2416482-07	Acenaphthene Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N N	Yes Yes	32 0.67	32 J	FDP
L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2416482-07	Benzo(a)anthracene Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N N	Yes	0.67		
L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2416482 SW6010D NA SB-2A_12-14 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	12418246-01 12418246-01 12418246-01 12418246-01 12418246-01 12418246-01 12416482-07	Benzo(a)pyrene Chrysene Fluoranthene Naphthalene	N N			U.0/ J	LEDD
L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA SB-2A_12-14 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2416482-07	Chrysene Fluoranthene Naphthalene	N	res	10.34	0.54.1	FDP FDP
L2418246 SW8270ESIM NA MW-7-20240403 MV-2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-01 L2418246-01 L2418246-01 L2418246-01 L2416482-07	Fluoranthene Naphthalene		V		0.54 J	
L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2416842 SW6010D NA SB-2A_12-14 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-01 L2418246-01 L2418246-01 L2416482-07	Naphthalene		Yes	0.62	0.62 J	FDP
L2418246 SW8270ESIM NA MW-7-20240403 MV-7-20240403 L2418246 SW8270ESIM NA MW-7-20240403 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-01 L2418246-01 L2416482-07		1	Yes	3.1	3.1 J	FDP
L2418246 SW8270ESIM NA MW-7-20240403 L2416482 SW6010D NA SB-2A_12-14 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-01 L2416482-07	rnenanthrene	N N	Yes	9.1	9.1 J	FDP
L2416482 SW6010D NA SB-2A_12-14 L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2416482-07	la	1	Yes	0.55	0.55 J	FDP
L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403		Pyrene	N	Yes	4.4	4.4 J	FDP
L2418246 E1633 NA DUP1_20240403	12410246 04	Lead	N	Yes	302	302 J	FDP
	L2418246-04	Perfluorodecanesulfonic acid (PFDS)	N N	Yes	U U	UJ UJ	IDL IDL
L2418240 E1035 NA D0F1_20240403	L2418246-04 L2418246-04	Perfluorododecane sulfonic acid (PFDoDS) Perfluoroheptanesulfonic acid (PFHpS)	N N	Yes Yes	0.446 J	0.446 J	IDL
L2418246 E1633 NA DUP1_20240403	L2418246-04 L2418246-04	Perfluorononane sulfonic acid (PFNS)	N	Yes	U.446 J	UJ	IDL
1 1 -	L2418246-04 L2418246-04	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	O)	IDL
L2418246 E1633 NA DUP1_20240403 L2418246 E1633 NA DUP1_20240403	L2418246-04 L2418246-04	Perfluorooctanesulfonic acid (PFOS)	N	Yes	26.8	26.8 J	IDL
L2418246 E1633 NA DUP1_20240403	L2418246-04 L2418246-04	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	IDL
L2418246 SW8260D NA DUP1_20240403	L2418246-04	m,p-Xylenes	N	Yes	39	39 J	LCS
L2418559 E1633 NA FIELD BLANK-20240404		3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	B	LCS
L2418559 E1633 NA MW-1_20240404	L2418559-02	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	R	LCS
L2418782 SW8260D NA MW-2_20240405	L2418782-02	trans-1,4-Dichloro-2-butene	N	Yes	U	UJ	LCS
L2418559 E1633 NA MW-4_20240404	L2418559-01	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	R	LCS
L2418559 SW8270ESIM NA MW-4_20240404	L2418559-01	Acenaphthylene	N	Yes	U	UJ	LCS
L2418559 SW8270ESIM NA MW-4_20240404	L2418559-01	Hexachlorobutadiene	N	Yes	U	UJ	LCS
L2418246 SW8260D NA MW-5-20240403	L2418246-02	m,p-Xylenes	N	Yes	0.75 J	0.75 J	LCS
L2418782 SW8260D NA MW-6_20240405	L2418782-01	trans-1,4-Dichloro-2-butene	N	Yes	U	UJ	LCS
L2418246 SW8260D NA MW-7-20240403	L2418246-01	m,p-Xylenes	N	Yes	42	42 J	LCS
L2416482 SW8260D NA SB-2A-S1_11-11.5	L2416482-76	1,4-Dioxane	N	Yes	U	UJ	LCS
L2416482 SW8260D NA SB-2A-S1_11-11.5	L2416482-76	2-Butanone (Methyl Ethyl Ketone)	N	Yes	U	UJ	LCS
L2416482 SW8260D NA SB-2A-S1_11-11.5	L2416482-76	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	LCS
L2416482 SW8270E NA SB-2A-S1_11-11.5	L2416482-76	1,4-Dioxane	N	Yes	U	ΩĴ	LCS
L2416482 SW8270E NA SB-2A-S1_11-11.5	L2416482-76	Carbazole	N	Yes	66 J	66 J	LCS
L2418782 SW8260D NA TRIP BLANK-20240405	L2418782-03	trans-1,4-Dichloro-2-butene	N	Yes	U	UJ	LCS
L2418559 SW8270E NA MW-4_20240404	L2418559-01	2-Nitroaniline	N	Yes	U	UJ	LCS MSD
L2418559 SW8270E NA MW-4_20240404	L2418559-01	Carbazole	N	Yes	U	UJ	LCS MSD
L2418559 SW8270ESIM NA MW-1_20240404	L2418559-02	Benzo(b)fluoranthene	N	Yes	0.02 J	0.1 U	MBK
L2418559 SW8270ESIM NA MW-1_20240404	L2418559-02	Indeno(1,2,3-cd)pyrene	N	Yes	0.02 J	0.1 U	MBK
L2418559 SW8270ESIM NA MW-1_20240404	L2418559-02	Naphthalene	N	Yes	0.12	0.12 U	MBK
L2418782 SW8270ESIM NA MW-2_20240405	L2418782-02	Fluorene	N	Yes	0.04 J	0.1 U	MBK
L2418782 SW8270ESIM NA MW-2_20240405	L2418782-02	Naphthalene	N	Yes	0.09 J	0.1 U	MBK
L2418782 SW8270ESIM NA MW-2_20240405	L2418782-02	Phenanthrene	N	Yes		0.1 U	MBK
L2418246 SW6020B NA MW-3-20240403	L2418246-03	Arsenic	Т	Yes	0.00112	0.00112 J+	MBK
L2418246 SW6020B NA MW-3-20240403	L2418246-03	Manganese	Т	Yes	0.00349	0.00349 J+	MBK
L2418246 SW8270ESIM NA MW-3-20240403	L2418246-03	Benzo(b)fluoranthene	N	Yes	0.01 J	0.1 U	MBK
L2418246 SW8270ESIM NA MW-3-20240403	L2418246-03	Naphthalene	N	Yes	0.4	0.4 J+	MBK
L2418782 SW8270ESIM NA MW-6_20240405	L2418782-01	2-Methylnaphthalene	N		0.25	0.25 J+	MBK
L2418782 SW8270ESIM NA MW-6_20240405	L2418782-01	Phenanthrene	N	Yes	0.11	0.11 U	MBK
L2418246 SW8270ESIM NA MW-7-20240403	L2418246-01	Benzo(b)fluoranthene	N	Yes	0.41	0.41 J+	MBK
L2418246 SW8270ESIM NA MW-7-20240403	L2418246-01	Benzo(g,h,i)perylene	N	Yes	0.26	0.26 J+	MBK
L2418246 SW8270ESIM NA MW-7-20240403	L2418246-01	Dibenz(a,h)anthracene	N	Yes	0.06 J	0.1 U	MBK
L2418246 SW8270ESIM NA MW-7-20240403	L2418246-01	Indeno(1,2,3-cd)pyrene	N	Yes	0.22	0.22 J+	MBK
L2418559 SW6020B NA MW-1_20240404	L2418559-02	Magnesium	D	Yes	53.1	53.1 J	MSD
L2418559 SW6020B NA MW-4_20240404	L2418559-01	Magnesium	D	Yes	37.4	37.4 J	MSD

Notes

MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.

FDP = Field duplicate qualifier due to an exceedance of the specified limits.

LCS = Laboratory control/laboratory control spike duplicate percent recoveries or relative percent difference were outside the specified limits.

MBK = Method blank contamination.

ARA = Another more viable result is available, whether due to dilution, resampling, etc.

IDL = Isotope dilution outside the specified limits.

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U = The compound was analyzed for but not detected.

UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

R = The sample results were rejected as unusable; the compound may or may not be present in the sample. J+ = The result is an estimated quantity, but the result may be biased high.

APPENDIX J
Daily Reports



DAILY FIELD REPORT

Project	Former A&A Brake Service Site	Report No.	16
BCP Site	NYSDEC BCP SITE C224372	Date	6/21/2023
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:74 L: 60
Contractor	Coastal Environmental Solutions, Inc. (Coastal)	Wind Direction	NE to SW, 11 mph
Weather	Sunny	Personnel on Site	Anna Vaculik, Zach Simmel
Humidity	76%	Time on Site	6:45-15:15

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Remedial Investigation Work Plan (RIWP) dated March 2023. Site observations are summarized below.

Daily Observations:

- Coastal mobilized a Eijkelkamp CRS XL140 Duo sonic drilling rig to the site.
- NYSDEC representative Brian Jessourian met with Haley & Aldrich personnel at the site.
- Coastal completed a site-wide Ground Penetrating Radar survey and cleared sampling locations.
- Coastal completed installation of five soil borings (SB-1, SB-2, SB-4, SB-5, and SB-6) to 20 feet below grade surface (ft bgs) and soil samples were collected in accordance with the RIWP.
- Coastal completed installation of permanent groundwater monitoring well MW-3 to 15 ft bgs.

Samples Collected:

- Soil samples were collected from SB-1, SB-2, SB-4, SB-5, and SB-6 in accordance with the RIWP.
- One duplicate, one MS/MSD sample, one field blank, and one trip blank were collected.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

Air monitoring was performed at one upwind and one downwind location during ground intrusive activities. A background reading was collected directly in front of the entrance to the residence located to the west of the Site in proximity to the observed air conditioning window units. The upwind air monitoring location was placed adjacent to the air conditioning unit as well. No concentrations of volatiles organic compounds (VOCs) or particulate 15-minute average concentration of matter smaller than 10 microns in diameter (PM10) exceeded the action levels of 0.1 ppm and 150 mcg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the site perimeter.

Activities Planned for Coming Week:

• Haley & Aldrich will continue implementing the Remedial Investigation including soil borings, monitoring well installation and soil vapor point installation.



DAILY FIELD REPORT

Site Photographs:



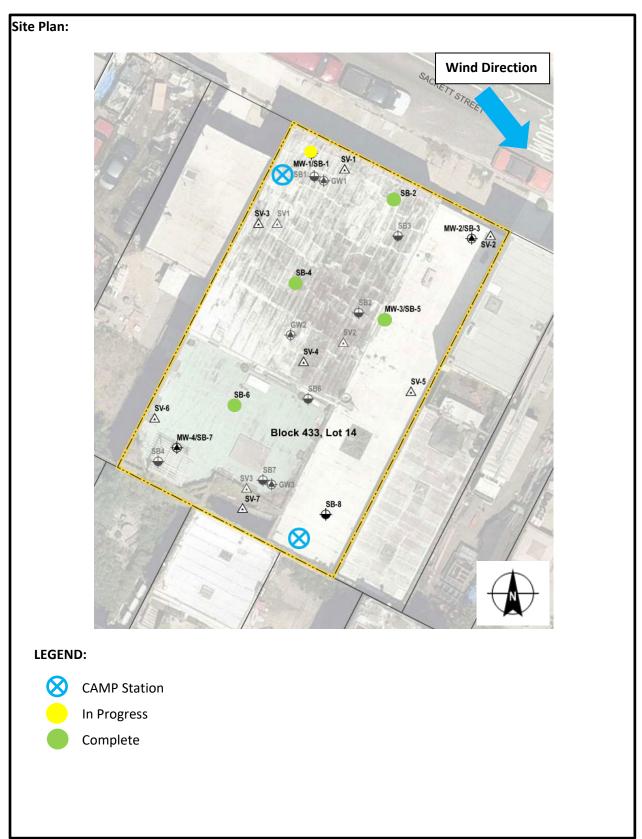
Photo 1: View of drilling SB-5, facing south.



Photo 2: View of upwind CAMP station, facing north.



DAILY FIELD REPORT



558 Sackett Street, Brooklyn, NY **BCP Site C224372 Air Monitoring Log**

Date: 6/21/2023 Personnel:

A. Vaculik, Z.Simmel

Weather: Sunny

76% Humidity: Wind Direction: NE to SW, 11 mph

> Particulate Background (mg/m3): 0.008

PID Background (ppm):

Site Map:





	Partio	culate	V	OCs		Natas	
	Upwind	Downwind	Upwind	Downwind		Notes	
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring	
630							
645							
700							
715							
730							
745							
800							
815							
830	0.011	0.033	0	0	n	Begin intrusive work	
845	0.01	0.011	0	0	n		
900	0.014	0.008	0	0	n		
915	0.01	0.007	0	0	n		
930	0.009	0.004	0	0	n		
945	0.013	0.006	0	0	n		
1000	0.012	0.01	0	0	n		
1015	0.02	0.007	0	0	n		
1030	0.009	0.009	0	0	n		
1045	0.008	0.01	0	0	n		

558 Sackett Street, Brooklyn, NY BCP Site C224372 Air Monitoring Log

	Parti	culate	V	OCs .	Notes	
	Upwind	Downwind	Upwind	Downwind		Notes
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
1100	0.011	0.008	0	0	n	
1115	0.018	0.02	0	0	n	
1130	0.017	0.013	0	0	n	
1145	0.01	0.012	0	0	n	
1200	0.012	0.008	0	0	n	
1215	0.008	0.008	0	0	n	
1230	0.011	0.007	0	0	n	
1245	0.01	0.012	0	0	n	
1300	0.01	0.015	0	0	n	
1315	0.011	0.009	0	0	n	
1330	0.01	0.009	0	0	n	
1345	0.008	0.011	0	0	n	
1400	0.012	0.009	0	0	n	
1430						
1445						
1500						
1515						
1530						
1545						
1600						
1615						
1630						
1645						
1700						
1715						
1730						
1745						
1800						
1815						
1830						
1845						



Project	Former A&A Brake Service Site	Report No.	17
BCP Site	NYSDEC BCP SITE C224372	Date	6/22/2023
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:68 L: 60
Contractor	Coastal Environmental Solutions, Inc. (Coastal)	Wind Direction	NW to SE, 12 mph
Weather	Sunny	Personnel on Site	Anna Vaculik, Zach Simmel
Humidity	80%	Time on Site	6:30-15:00

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Remedial Investigation Work Plan (RIWP) dated March 2023. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Brian Jessourian met with Haley & Aldrich personnel at the site.
- Coastal completed installation of one soil boring (SB-7) to 20 feet below grade surface (ft bgs) and soil samples were collected in accordance with the RIWP.
- Coastal completed installation of one soil boring (SB-1) to 100 feet ft bgs, evidence of grossly contaminated material or non-aqueous phase liquid not observed, no additional samples were collected.
- Coastal completed installation of permanent groundwater monitoring well MW-1 to 15 ft bgs.
- Development of monitoring wells.

Samples Collected:

- Soil samples were collected from SB-7 in accordance with the RIWP.
- One field blank and one trip blank were collected.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

- Due to inclement weather, visual and olfactory monitoring was implemented from 7:00 AM to 11:45 AM. No odor or visible dust was observed leaving the site perimeter.
- Air monitoring was performed at one upwind and one downwind location during ground intrusive activities. A background reading was collected directly in front of the entrance to the residence located to the west of the Site in proximity to the observed air conditioning window units. The upwind air monitoring location was placed adjacent to the air conditioning unit as well. No concentrations of volatiles organic compounds (VOCs) or particulate 15-minute average concentration of matter smaller than 10 microns in diameter (PM10) exceeded the action levels of 0.1 ppm and 150 mcg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the site perimeter.

Activities Planned for Coming Week:

 Haley & Aldrich will continue implementing the Remedial Investigation including soil borings, monitoring well installation and soil vapor point installation.



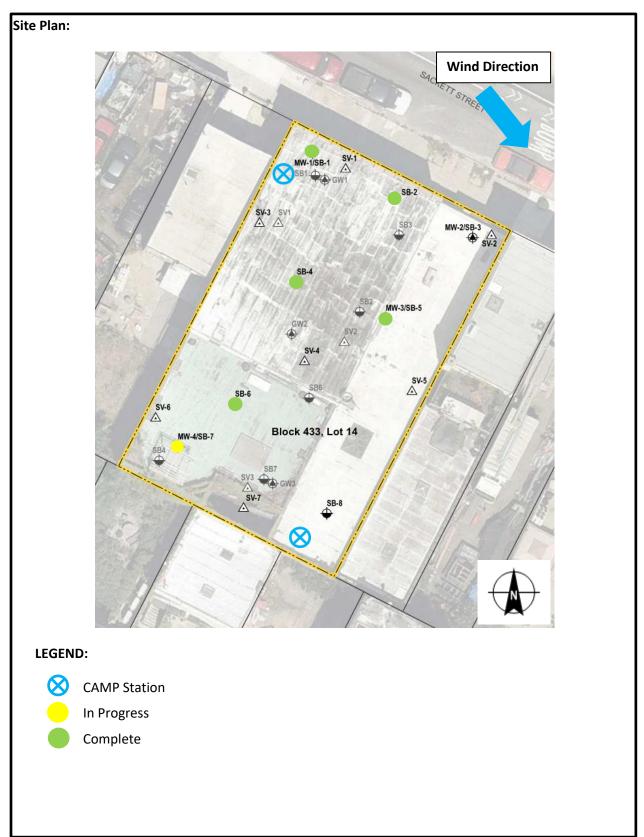


Photo 1: Soil from SB-1 from 90-100 ft bgs, facing east.



Photo 2: View of upwind CAMP station, facing northwest.





N

Date: 6/22/2023
Personnel: A. Vaculik, Z.Simmel

Weather: Rain, chance sun afternoon

Humidity: 80%
Wind Direction: NW to SE, 12 mph

Particulate Background (mg/m3): 0.018

PID Background (ppm): 0.0

Site Map:



	Particulate		VOCs			Notes	
	Upwind	Downwind	Upwind	Downwind	Notes		
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring	
630							
645							
700							
715							
730							
745							
800							
815							
830		Visual and	olfactory monit	toring conducte	ed due to inclem	ent weather	
845		Visual aria	onactory morni	ioring conducte	ed dae to moren	iene wedener	
900							
915							
930							
945							
1000							
1015							
1030							
1045							

	Parti	iculate	V	OCs		Netes
	Upwind	Downwind	Upwind	Downwind		Notes
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
1100				-		
1115		Visua	l and olfactory mo	onitoring conducted	due to inclement v	veather
1130						
1145	0.019	0.021	0.0	0.0	N	
1200	0.018	0.012	0.0	0.0	N	
1215	0.013	0.010	0.0	0.0	N	
1230	0.012	0.012	0.0	0.0	N	
1245	0.016	0.080	0.0	0.0	N	
1300	0.012	0.009	0.0	0.0	N	
1315	0.013	0.009	0.0	0.0	N	
1330	0.013	0.037	0.0	0.0	N	
1345	0.006	0.025	0.0	0.0	N	
1400						
1430						
1445						
1500						
1515						
1530						
1545						
1600						
1615						
1630						
1645						
1700						
1715						
1730						
1745						
1800						
1815						
1830						
1845						



Project	Former A&A Brake Service Site	Report No.	18
BCP Site	NYSDEC BCP SITE C224372	Date	6/23/2023
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:74 L: 65
Contractor	Coastal Environmental Solutions, Inc. (Coastal)	Wind Direction	E to W, 7 mph
Weather	Sunny	Personnel on Site	A. Vaculik, A. Chandra
Humidity	89%	Time on Site	6:30-14:30

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Remedial Investigation Work Plan (RIWP) dated March 2023. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Harry August met with Haley & Aldrich personnel at the site.
- Coastal completed installation of one soil boring (SB-8) to 30 feet below grade surface (ft bgs) and soil samples were collected in accordance with the RIWP.
- Coastal completed installation of one soil boring (SB-7) to 100 feet ft bgs, evidence of grossly contaminated material or non-aqueous phase liquid not observed, no additional samples were collected.
- Coastal completed installation of permanent groundwater monitoring well MW-4 to 15 ft bgs.
- Development of monitoring wells.

Samples Collected:

- Soil samples were collected from SB-8 in accordance with the RIWP.
- One Matrix Spike (MS), Matrix Spike Duplicate (MSD), and one trip blank were collected.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

- Due to inclement weather, visual and olfactory monitoring was implemented from 10:00 AM to 1:30PM. No odor or visible dust was observed leaving the site perimeter.
- Air monitoring was performed at one upwind and one downwind location during ground intrusive activities. A background reading was collected directly in front of the entrance to the residence located to the west of the Site in proximity to the observed air conditioning window units. The upwind air monitoring location was placed adjacent to the air conditioning unit as well. No concentrations of volatiles organic compounds (VOCs) or particulate 15-minute average concentration of matter smaller than 10 microns in diameter (PM10) exceeded the action levels of 0.1 ppm and 150 mcg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the site perimeter.

Activities Planned for Coming Week:

 Haley & Aldrich will continue implementing the Remedial Investigation including soil borings, monitoring well installation and soil vapor point installation.





Photo 1: Soil from SB-7 from 40-50 ft bgs, facing east.



Photo 2: Installation of MW-4, facing southwest.





Ν

Date: 6/23/2023 Personnel:

A. Vaculik, A. Chandra

Weather: Cloudy, Rainy

1015

1030 1045

Humidity: 89% Wind Direction: E to W, 7 mph

> Particulate Background (mg/m3): 0.022

PID Background (ppm): 0.0 Site Map:



	Partic	ulate	VC	OCs		Notes
	Upwind	Downwind	Upwind	Downwind	Notes	
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
630						
645						
700						
715	0.031	0.027	0.0	0.0	N	
730	0.021	0.018	0.0	0.0	N	
745	0.008	0.012	0.0	0.0	N	
800	0.006	0.014	0.0	0.0	N	
815		0.011	0.0	0.0	N	
830	DustTrak	0.010	0.0	0.0	N	
845	malfunction	0.009	0.0	0.0	N	
900	possibly due to	0.011	0.0	0.0	N	
915	high humidity	0.009	0.0	0.0	N	
930		0.006	0.0	0.0	N	
945		0.005	0.0	0.0	N	
1000						

Due to inclement weather, visual and olfatory monitoring conducted

	Parti	culate	VC	OCs .		
	Upwind	Downwind	Upwind	Downwind		Notes
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
1100					•	
1115						
1130						
1145						
1200						
1215		Due	to inclement weath	ner, visual and olfat	tory monitoring con	ducted
1230						
1245						
1300						
1315						
1330						
1345						
1400						
1430						
1445						
1500						
1515						
1530						
1545						
1600						
1615						
1630						
1645						
1700						
1715						
1730						
1745						
1800						
1815						
1830						
1845						



Project	Former A&A Brake Service Site	Report No.	19
BCP Site	NYSDEC BCP SITE C224372	Date	6/26/2023
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:80 L: 69
Contractor	Coastal Environmental Solutions, Inc. (Coastal)	Wind Direction	SE to NW, 4 mph
Weather	Sunny with intermittent rain	Personnel on Site	A. Vaculik
Humidity	88%	Time on Site	6:30-15:15

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Remedial Investigation Work Plan (RIWP) dated March 2023. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Harry August met with Haley & Aldrich personnel at the site.
- Coastal completed installation of one soil boring (SB-3) to 50 feet below grade surface (ft bgs) and soil samples were collected in accordance with the RIWP.
- Coastal completed installation of one soil boring (SB-8) to 100 feet ft bgs, evidence of grossly contaminated material or non-aqueous phase liquid not observed, no additional samples were collected.

Samples Collected:

- Soil samples were collected from SB-3 in accordance with the RIWP.
- One duplicate and one trip blank were collected.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

- Due to inclement weather, visual and olfactory monitoring was implemented from 10:00 AM to 12:00 PM, and again from 12:30 PM to 2:00 PM. No odor or visible dust was observed leaving the site perimeter.
- Air monitoring was performed at one upwind and one downwind location during ground intrusive activities. A background reading was collected directly in front of the entrance to the residence located to the west of the Site in proximity to the observed air conditioning window units. The upwind air monitoring location was placed adjacent to the air conditioning unit as well. No concentrations of volatiles organic compounds (VOCs) or particulate 15-minute average concentration of matter smaller than 10 microns in diameter (PM10) exceeded the action levels of 0.1 ppm and 150 mcg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the site perimeter.

Activities Planned for Coming Week:

 Haley & Aldrich will continue implementing the Remedial Investigation including soil borings, monitoring well installation and soil vapor point installation.





Photo 1: View of drilling at SB-3, facing northeast.



Photo 2: Soil from SB-8 from 50 to 60 ft bgs, facing east.





Date: 6/26/2023

Personnel: A. Vaculik
Weather: Cloudy, Rainy
Humidity: 89%

Wind Direction: SE to NW, 4 mph

Particulate Background (mg/m3): 0.036

PID Background (ppm): 0.0

Site Map:





	Partic	ulate	VOCs						
	Upwind	Downwind	Upwind	Downwind	Notes				
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring			
630									
645									
700									
715	0.033	0.039	0.0	0.0	N				
730	0.041	0.021	0.0	0.0	N				
745	0.042	0.033	0.0	0.0	N				
800	0.027	0.034	0.0	0.0	N				
815	0.033	0.021	0.0	0.0	N				
830	0.022	0.033	0.0	0.0	N				
845	0.031	0.034	0.0	0.0	N				
900	Drill rig	shut off for break a	nd to refill water t	ank: no readings co	allected				
915	Dilliling	Silut oil foi bleak a	na to remi water t	ank, no readings co	Silected				
930	0.027	0.017	0.0	0.0	N				
945	0.018	0.008	0.0	0.0	N				
1000			_						
1015									
1030		Due to inclement weather, visual and olfatory monitoring conducted							
1045									

	Partic	ulate	VO	Cs		Nata
	Upwind	Downwind	Upwind	Downwind		Notes
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
1100	•	-	•		•	
1115		D t	- !			alicaka d
1130		Due to	o inclement weath	er, visual and olfat	ory monitoring con	lauctea
1145						
1200	0.008	0.010	0.0	0.0	N	
1215	0.030	0.019	0.0	0.0	N	
1230	0.011	0.008	0.0	0.0	N	
1245		•	•			·
1300						
1315						
1330		Due to	o inclement weath	er, visual and olfat	ory monitoring con	iducted
1345						
1400						
1430						
1445						
1500						
1515						
1530						
1545						
1600						
1615						
1630						
1645						
1700						
1715						
1730						
1745						
1800						
1815						
1830						
1845						



Project	Former A&A Brake Service Site	Report No.	20
BCP Site	NYSDEC BCP SITE C224372	Date	6/27/2023
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:80 L: 66
Contractor	Coastal Environmental Solutions,	Wind Direction	S to N, 7 mph
	Inc. (Coastal)		
Weather	Cloudy, Rainy	Personnel on Site	A. Vaculik
Humidity	97%	Time on Site	6:30-15:45

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Remedial Investigation Work Plan (RIWP) dated March 2023. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Harry August met with Haley & Aldrich personnel at the site.
- Coastal completed installation of one soil boring (SB-3) to 100 feet ft bgs, evidence of grossly contaminated material or non-aqueous phase liquid not observed, no additional samples were collected.
- Coastal completed installation of one groundwater monitoring well (MW-2) to a depth of 15 ft bgs.
- Coastal completed installation of seven soil vapor points across the site to a depth of 7 ft bgs.
- Developed monitoring wells.

Samples Collected:

- Four soil vapor samples were collected from SV-2, SV-4, SV-5, and SV-7 in accordance with the RIWP.
- All samples were submitted via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

- Due to inclement weather, visual and olfactory monitoring was implemented from 8:45 AM to 12:30 PM. No odor or visible dust was observed leaving the site perimeter.
- Air monitoring was performed at one upwind and one downwind location during ground intrusive activities. A background reading was collected directly in front of the entrance to the residence located to the west of the Site in proximity to the observed air conditioning window units. The upwind air monitoring location was placed adjacent to the air conditioning unit as well. No concentrations of volatiles organic compounds (VOCs) or particulate 15-minute average concentration of matter smaller than 10 microns in diameter (PM10) exceeded the action levels of 0.1 ppm and 150 mcg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the site perimeter.

Activities Planned for Coming Week:

 Haley & Aldrich will continue implementing the Remedial Investigation including soil vapor and groundwater sampling.



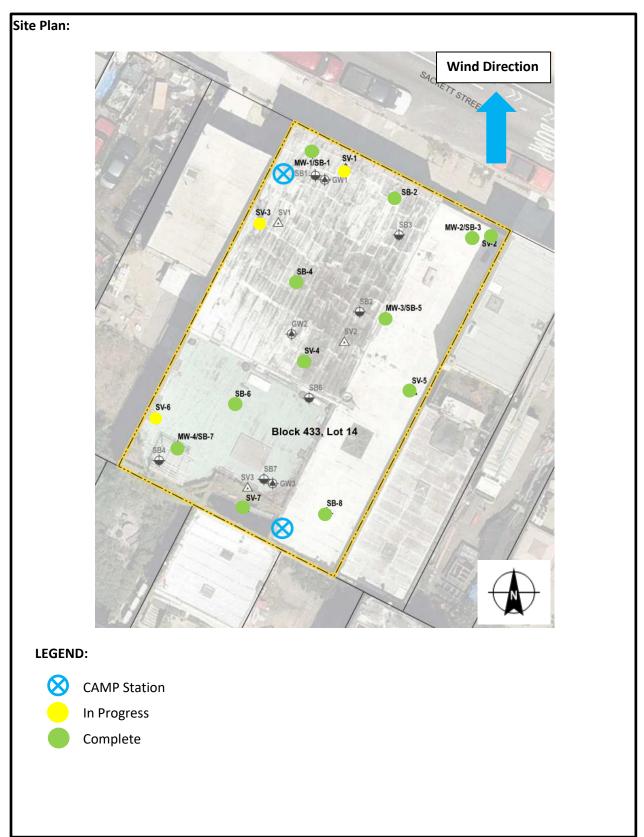


Photo 1: Soil from SB-3 from 60-70 ft bgs, facing east.



Photo 2: Helium Shroud fit test on SV-7, facing south.





Date: 6/27/2023

Personnel: A. Vaculik
Weather: Cloudy, Rainy
Humidity: 97%

Wind Direction: S to N, 7 mph

Particulate Background (mg/m3): 0.035

PID Background (ppm): 0.0

Site Map:





				11272		
	Particulate		VOCs			Notes
	Upwind	Downwind	Upwind	Downwind		Notes
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
630						
645						
700	0.040	0.029	0.0	0.0	N	
715	0.021	0.021	0.0	0.0	N	
730	0.033	0.015	0.0	0.0	N	
745	0.029	0.016	0.0	0.0	N	
800	0.032	0.02	0.0	0.0	N	
815	0.032	0.019	0.0	0.0	N	
830	0.037	0.028	0.0	0.0	N	
845						

Due to inclement weather, visual and olfatory monitoring conducted

	Partio	culate	VC	OCs		
	Upwind	Downwind	Upwind	Downwind		Notes
Time	(mg/m3)	(mg/m3)	(ppm)	(ppm)	Odors (y/n)	Activities/Additional Monitoring
1100						
1115						
1130						
1145		Due	to inclement weath	ner, visual and olfat	ory monitoring con	ducted
1200						
1215						
1230						
1245						
1300						
1315						
1330						
1345						
1400						
1430						
1445						
1500						
1515						
1530						
1545						
1600						
1615						
1630						
1645						
1700						
1715						
1730						
1745						
1800						
1815						
1830						
1845						



Project	Former A&A Brake Service Site	Report No.	21
BCP Site	NYSDEC BCP SITE C224372	Date	6/28/2023
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:83 L: 66
Contractor	N/A	Wind Direction	SW to NE, 6 mph
Weather	Cloudy, Rainy	Personnel on Site	A. Vaculik
Humidity	61%	Time on Site	6:30-9:45

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Remedial Investigation Work Plan (RIWP) dated March 2023. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Harry August met with Haley & Aldrich personnel at the site.
- A total of seven DOT-approved drums of investigation derived waste were generated to date and remain secured and labeled on-site pending future off-site disposal including three containing purge water from well development and five containing soil cuttings.

Samples Collected:

- Three (3) soil vapor samples were collected from SV-1, SV-3, and SV-6 in accordance with the RIWP.
- All samples were submitted via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

None

Activities Planned for Coming Week:

 Haley & Aldrich will continue implementing the Remedial Investigation including groundwater sampling.





Photo 1: Soil vapor collection at SV-3, facing south.



Photo 2: View of site conditions, facing south.







Project	Former A&A Brake Service Site	Report No.	1	
BCP Site	NYSDEC BCP SITE C224372	Date	3/26/2023	
Location	558 Sackett Street	File No.	0206384	
Client	Sackett Heights LLC	Temperature	H:49 L: 37	
Contractor	Lakewood Environmental	Wind Direction	NE to SW, 8 mph	
	Services Corp.			
Weather	Partly Cloudy	Personnel on Site	N. Mooney, A. Stewart, Z.	
			Simmel	
Humidity	69%	Time on Site	7:00 - 17:30	

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Supplemental Remedial Investigation Work Plan (SRIWP) dated March 2024. Site observations are summarized below.

Daily Observations:

- NYSDEC case manager Marnie Chancey and Chris Disclafani of WSP (contracted by NYSDEC) met with Haley & Aldrich personnel at the site.
- Lakewood completed installation of one soil boring (SB-3A) to 11 ft bgs and one soil boring (SB-2A) to 14 ft bgs and associated 5-foot step outs and contingency borings for delineation of Total/TCLP Lead and Mercury.
- The contingency boring proposed approximately 5 ft west of step out SB-3A-W1 was unable to be installed due to utility presence.
- Lakewood completed installation/development of three groundwater monitoring wells (MW-5, MW-6, MW-7) to a depth of 17 ft bgs (groundwater encountered at 9-10 ft bgs).
- A total of two DOT-approved drums of investigation derived waste were generated and are secured and labeled on-site pending future off-site disposal, including one containing purge water from well development and one containing soil cuttings.

Samples Collected:

- Soil samples were collected from SB-2A and SB-3A in accordance with the SRIWP.
- An additional soil sample was collected for VOCs and SVOCs from the step out located 5 ft south of SB-2 (SB-2A-S1) due to impacts observed from 11 to 11.5 ft bgs. MW-7 was installed at this boring location. Deviation from the SRIWP was communicated with NYSDEC by email and phone conversation with the NYSDEC case manager.
- Soil samples collected from step outs and contingency borings were placed on hold in accordance with the SRIWP.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the SRIWP.



CAMP Activities:

Air monitoring was performed at one upwind and one downwind location during ground intrusive activities. A background reading was collected directly in front of the entrance to the residence located to the west of the Site in proximity to the observed air conditioning window units. The upwind air monitoring location was placed adjacent to the air conditioning unit as well. No concentrations of volatiles organic compounds (VOCs) or particulate 15-minute average

	of 0.1 ppm and 150 mcg/m³, respectively, as specified in the "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures." No visible dust was observed leaving the site perimeter.
Activiti •	ies Planned for Coming Week: Haley & Aldrich will continue implementing the Supplemental Remedial Investigation including groundwater sampling.





Photo 1: View of MW-5 and drilling at SB-2A, facing north.

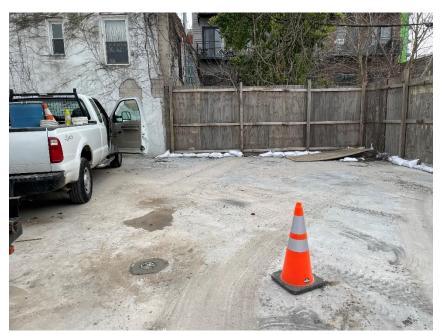
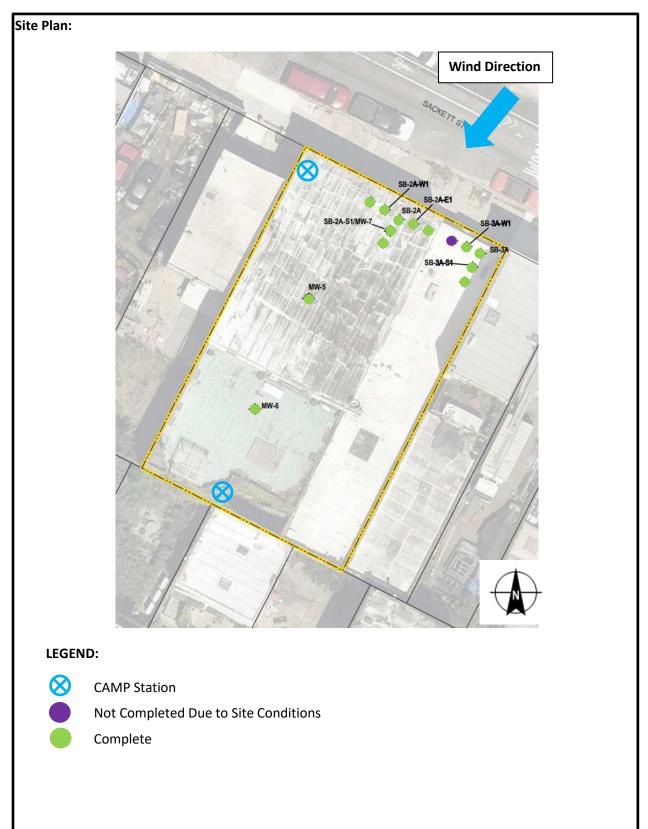


Photo 2: View of MW-5 and Site conditions, facing south.





Air Monitoring Log

3/26/2024 Date:

Site Map:

Personnel:

A. Stewart, N. Mooney

Weather:

37-49 °F, Partly Cloudy

Humidity:

69%

Wind Direction:

NE to SW

Particulate Background (mcg/m3):

0.025 0.0

PID Background (ppm):

Wind **Direction**



<u>Upwind</u>

Dustrak #: 8530143210

Downwind

Dustrak #: 8530133102

	Particul	ate	VOCs			
	Upwind	Downwind	Upwind	Downwind		Notes
Time	Dust (mcg/m3)	Dust (mcg/m3)	PID (ppm)	PID (ppm)	Odors (y/n)	Activities/Additional Monitoring
630						
645						
700						
715						
730						
745	0.025	0.014	0.0	0.0	N	
800	0.016	0.013	0.0	0.1	N	
815	0.016	0.015	0.0	0.1	N	
830	0.018	0.025	0.0	0.1	N	
845	0.021	0.023	0.0	0.1	N	
900	0.018	0.016	0.0	0.1	N	
915	0.016	0.016	0.0	0.1	N	
930	0.014	0.014	0.0	0.1	N	
945	0.020	0.021	0.0	0.2	N	Windy conditions kicking up dust
1000	0.015	0.020	0.0	0.1	N	
1015	0.013	0.017	0.0	0.1	N	
1030	0.014	0.017	0.0	0.1	N	
1045	0.020	0.015	0.0	0.0	N	

Air Monitoring Log

	Upwind	Downwind	Upwind	Downwind		Notes
Time	Dust (mcg/m3)	Dust (mcg/m3)	PID (ppm)	PID (ppm)	Odors (y/n)	Activities/Additional Monitoring
1100	0.024	0.014	0.0	0.2	N	
1115	0.020	0.013	0.0	0.2	N	
1130	0.009	0.011	0.0	0.1	N	
1145	0.015	0.014	0.0	0.1	N	
1200	0.020	0.020	0.0	0.1	N	
1215	0.013	0.016	0.0	0.1	N	
1230	0.014	0.019	0.0	0.1	N	
1245	0.017	0.013	0.0	0.1	N	
1300	0.015	0.014	0.0	0.1	N	
1315	0.021	0.018	0.0	0.1	N	
1330	0.020	0.018	0.0	0.1	N	
1345	0.020	0.018	0.0	0.1	N	
1400	0.018	0.017	0.0	0.1	N	
1430	0.016	0.015	0.0	0.1	N	
1445	0.014	0.016	0.0	0.1	N	
1500	0.020	0.017	0.0	0.1	N	
1515	0.021	0.019	0.0	0.1	N	
1530	0.018	0.020	0.0	0.1	N	
1545	0.013	0.017	0.0	0.1	N	
1600	0.015	0.016	0.0	0.1	N	Instrusive activities complete
1615						
1630						
1645						
1700						
1715						
1730						
1745						
1800						
1815						
1830						
1845						
1900						



Project	Former A&A Brake Service Site	Report No.	2
BCP Site	NYSDEC BCP SITE C224372	Date	4/3/2024
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:46 L: 42
Contractor	Haley & Aldrich	Wind Direction	E to W, 19 mph
Weather	Rain	Personnel on Site	N. Manzione
Humidity	84%	Time on Site	7:00 - 17:30

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Supplemental Remedial Investigation Work Plan (SRIWP) dated March 2024. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Chris Disclafani of WSP (contracted by NYSDEC) met with Haley & Aldrich personnel at the site.
- Haley & Aldrich conducted a synoptic groundwater gauging event of all seven monitoring wells.
- Haley & Aldrich completed groundwater sampling at MW-3, MW-5, and MW-7.

Samples Collected:

- Groundwater samples MW-3, MW-5, and MW-7 were collected in accordance with the SRIWP.
- QA/QC samples including one duplicate (parent sample MW-7) and one trip blank were collected in accordance with the SRIWP.
- Purge water was contained in 55-gallon DOT-approved labeled drums.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

• No intrusive drilling activities were conducted; therefore, CAMP was not performed.

Activities Planned for Coming Week:

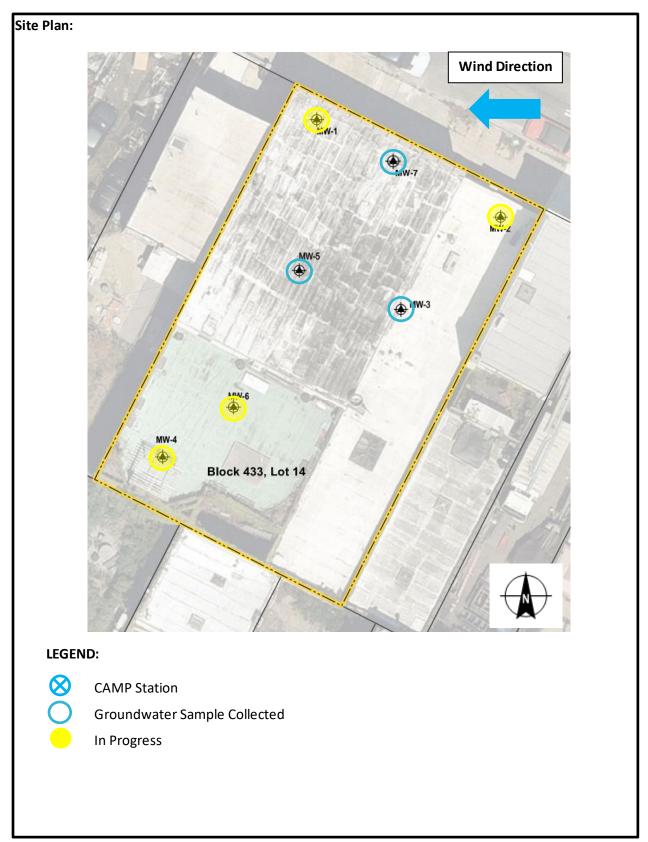
- Haley & Aldrich will continue implementing the Supplemental Remedial Investigation including groundwater sampling of monitoring wells MW-1, MW-2, MW-4, and MW-6.
- Of note, Haley & Aldrich was on Site on April 2, 2024, however no activities were conducted as laboratory provided sample materials were delayed in arriving to the Site.





Photo 1: Site conditions facing southwest.







Project	Former A&A Brake Service Site	Report No.	3
BCP Site	NYSDEC BCP SITE C224372	Date	4/4/2024
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:51 L: 36
Contractor	Haley & Aldrich	Wind Direction	NW to SE, 5 mph
Weather	Clear	Personnel on Site	N. Manzione
Humidity	55%	Time on Site	7:45 – 18:15

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Supplemental Remedial Investigation Work Plan (SRIWP) dated March 2024. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Chris Disclafani of WSP (contracted by NYSDEC) met with Haley & Aldrich personnel at the site.
- Haley & Aldrich completed groundwater sampling at MW-1 and MW-4.

Samples Collected:

- Groundwater samples MW-1 and MW-4 were collected in accordance with the SRIWP.
- QA/QC samples including one MS/MSD sample (parent sample MW-4) and one trip blank were collected in accordance with the SRIWP.
- Purge water was contained in 55-gallon DOT-approved labeled drums.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

No intrusive drilling activities were conducted; therefore, CAMP was not performed.

Activities Planned for Coming Week:

• Haley & Aldrich will continue implementing the Supplemental Remedial Investigation including groundwater sampling of monitoring wells MW-2 and MW-6.





Photo 1: Site conditions facing north.



Photo 2: View of low-flow sampling, facing south.







Project	Former A&A Brake Service Site	Report No.	4
BCP Site	NYSDEC BCP SITE C224372	Date	4/5/2024
Location	558 Sackett Street	File No.	0206384
Client	Sackett Heights LLC	Temperature	H:48 L: 39
Contractor	Haley & Aldrich	Wind Direction	W to E, 11 mph
Weather	Clear	Personnel on Site	N. Manzione
Humidity	38%	Time on Site	7:30 – 15:30

Haley & Aldrich of New York (Haley & Aldrich) was present to document implementation of the NYSDEC-Approved Supplemental Remedial Investigation Work Plan (SRIWP) dated March 2024. Site observations are summarized below.

Daily Observations:

- NYSDEC representative Chris Disclafani of WSP (contracted by NYSDEC) met with Haley & Aldrich personnel at the site.
- Haley & Aldrich completed groundwater sampling at MW-2 and MW-6.

Samples Collected:

- Groundwater samples MW-2 and MW-6 were collected in accordance with the SRIWP.
- A trip blank was collected in accordance with the SRIWP.
- Purge water was contained in 55-gallon DOT-approved labeled drums.
- All samples were submitted on ice in a cooler via courier to Alpha Analytical Laboratories, Inc. in Westborough, MA for analyses in accordance with the RIWP.

CAMP Activities:

• No intrusive drilling activities were conducted; therefore, CAMP was not performed.

Activities Planned for Coming Week:

None.





Photo 1: Site conditions facing south.



Photo 2: View of low-flow sampling, facing north.





APPENDIX K Investigation Derived Waste Disposal Manifests



Generator

Generator Name: SACKETT HEIGHTS

LLC

Generator ID: 34495

Address: 558 SACKETT ST.

BROOKLYN 11217

Transporter

Transporter Name: ABLE ENVIRONMENTAL SERVICES.

Address: 1599 Ocean Avenue Bldg. 2

Bohemia Zip: 11716

EPA ID: NYR000003582

Facility

Facility Name: AB OIL SERVICE LTD

Address: 1599 Ocean Ave Bohemia

11716 **Zip**: 11716

EPA ID: NYD987023371

		, 444.2,444				
SHIPPING NAME AND DESCRIPTION	NUMCONT	CONTTYPE	QUANTITY	UNIT PROFILE ID		
CONTAMINATED DIRTS, SOILS, AND SANDS	0 3	DM	-1200	P N816		
WATER CONTAMINATED W/ PETROLEUM	0 4	DM	-270	G N018		
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ADDITIONAL DESCRIPTION FOR MATERIAL LISTEE	ABOVE					
GENERATOR ADDRESS: 1365 ST NICHOLAS AVE. NY	′ NY 10003					
GENERATOR ADDRESS, 1965 ST MOTIONAS AVE. 11.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
CORCIAL MANDLING INCODUCTION AND ADDITION	IAL INFORMATIO					
SPECIAL HANDLING INSTRUCTION AND ADDITION	IAL INFORMATIO	713				
				and a supplication of the		
DISCREPANCY INDICATION SPACE						
•						
Generator's Certification:				1		
I certify that the materials described above are not	subjected to fede	grai regulations for	reporting proper			
X ZULVIEV PRINTED/TYPED NAME >	35	SIGNATURE	10//	1/13 DATE		
	ATEDIALE		ŕ			
TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF M.	Dav		101.	1		
PRINTED/TYPED NAME	/	SIGNATURE		DATE		
TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS						
PRINTED/TYPED NAME		SIGNATURE		DATE		
FACILITY OWNER OR OPERATOR: CERTIFICATION OF REC	EIPT OF WASTE MA	ATERIAL COVERED BY	THIS MANIFEST EX	CEPT AS NOTED ABOVE.		
I the Bornard D	1. A. 30	naid -	10/1	\ <u>4</u> 3		
I d PRINTED/TYPED NAME	my pe	SIGNATURE	- L. Y. J. J.	DATE		
	1/			<i>f</i>		