RSK Environmental Group

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Remedial Investigation Report (RIR)

1665 STILLWELL AVENUE
BROOKLYN, NY 11223
NYSDEC SITE NO. C224307

PREPARED FOR:

REFULGENCE LLC
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JANUARY 2024 (REV. 2)

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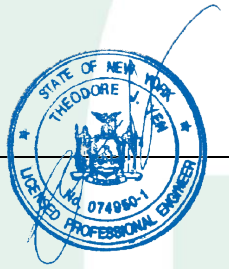
LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
AS/SVE	Air Sparging/Soil Vapor Extraction
BOA	Brownfield Opportunity Area
CAMP	Community Air Monitoring Plan
C&D	Construction and Demolition
CEQR	City Environmental Quality Review
CFR	Code of Federal Regulations
CHASP	Construction Health and Safety Plan
COC	Certificate of Completion
CQAP	Construction Quality Assurance Plan
CSOP	Contractors Site Operation Plan
DCR	Declaration of Covenants and Restrictions
ECs/ICs	Engineering Controls and Institutional Controls
ELAP	Environmental Laboratory Accreditation Program
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
IRM	Interim Remedial Measure
MNA	Monitored Natural Attenuation
NOC	Notice of Completion
NYS DEC	New York State Department of Environmental Conservation
NYC DEP	New York City Department of Environmental Protection
NYC DOHMH	New York State Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYC VCP	New York City Voluntary Cleanup Program
NYCRR	New York Codes Rules and Regulations
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
ORC	Oxygen-Release Compound
OSHA	United States Occupational Health and Safety Administration
PCBs	Polychlorinated Biphenyls
PE	Professional Engineer
PID	Photo Ionization Detector
QEP	Qualified Environmental Professional
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives

RAR	Remedial Action Report
RAWP	Remedial Action Work Plan or Plan
RCA	Recycled Concrete Aggregate
RD	Remedial Design
RI	Remedial Investigation
RMZ	Residual Management Zone
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SSDS	Sub-Slab Depressurization System
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
USGS	United States Geological Survey
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VOC	Volatile Organic Compound

CERTIFICATION

I, Theodore Yen, P.E., am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 1665 Stillwell Avenue, Brooklyn, NY 11223. I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.



Theodore Yen, P.E. 01/08/2024

Qualified Environmental Professional Date Signature

1.0 INTRODUCTION

RSK Environmental Group, LLC (RSK) has prepared this Remedial Investigation Report to document the site investigation activities that were conducted per the Remedial Investigation Work Plan (RIWP) prepared by American Environmental Solutions, Inc. (AES) dated by November 24, 2021 (a copy of the RIWP is included as **Appendix A**). The investigation was performed on behalf of Refulgence LLC (the Participant) for the site located at **1665 Stillwell Avenue, Brooklyn, New York** (hereafter referred to as the Site).

The Site was accepted into the New York State Brownfield Cleanup Program (BCP) and a Brownfield Cleanup Agreement (BCA) was executed with New York State Department of Environmental Conservation (NYSDEC) on June 14, 2021. The proposed use of the Site consists of the construction of a five-story mixed-use building with a partial cellar. The RI work was performed between May 5, 26-27, and 31, 2022. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Description

The Site is located at 1665 Stillwell Avenue in the Bensonhurst neighborhood of Brooklyn, NY, and is identified as Block: 6618 and Lot: 48 on the New York City Tax Map. See attached **Figure 1** which shows the Site Location Map. The Site consists of a rectangular parcel, approximately 8,000-sq. ft. (0.184-acre) in size, and is bounded by Stillwell Avenue to the west, Kings Highway to the north, Quentin Road to the south, and W 13th Street to the east.

1.2 Site Use and History

The Site is zoned as R6B/C2-2, residential district with commercial overlays. The surrounding properties consist mainly of commercial, residential, and institutional site uses. A Surrounding Land Use Map is provided as **Figure 2**. The Site is currently vacant and was previously developed with a single-story concrete block building that was previously occupied by a drycleaner, thrift shop, and a dairy.

1.3 Geological Conditions

According to the United States Geological Service (USGS), the glacial geology at the Site and in the immediate vicinity consists of Ordovician-Cambrian/Precambrian age Manhasset Formation, i.e., thin outwash from ice along Harbor Hill moraine, forming sandy plains. The Site is generally flat, with an average elevation of approximately 20-feet above mean sea level. According to the United States Department of Agriculture (USDA) the Site is underlain with urban land, outwash substratum consisting of cemented material up to 20-inches and deep gravelly coarse-loamy sand, with 0 to 3% slopes. Currently, the ground surface is covered by asphalt. According to previous environmental investigations performed by American Environmental Assessment & Solutions, Inc. (AEAS) during 2019, stratigraphy consists of historic fill material from surface to 4-feet below grade underlain by clayey soil to a depth of 12-feet across the Site. Based on the remedial investigation (RI) activities completed on the Site by RSK, soil encountered consisted of brown to dark brown, fine grained-silty to clayey soil, with gravels and rocks.

Depth to groundwater ranged from 16.68 to 17.50-feet below grade at the Site. Groundwater flow was determined to be southwest towards the nearest surface water body, i.e., Gravesend Bay located approximately 1.05 miles southwest of the Site. Bedrock was not encountered during RI activities, and is beyond 30-feet bgs.

1.4 Summary of Redevelopment Plans

The proposed future use of the Site will consist of a new five-story (15,912.60-sq.ft.) mixed-use building with a commercial space in the cellar and 1st floor, and sixteen (16) residential units 2nd floor through 5th floor. The proposed FAR for commercial is 0.428 and for residential it is 1.561 with a max. building height of 59-feet 8-inch. The layout will consist of no front yard, a 38-feet paved rear yard to be utilized for off-street parking and a 14-feet 10-inch side yard to be utilized as a paved driveway. The proposed cellar depth (top of slab) for the new building will be 10-feet below site grade (bsg). The proposed building will be serviced by an elevator on all floors. The proposed elevator shaft will be 17.5-feet bsg. No uncapped areas or landscaping are proposed as part of this redevelopment.

The proposed cellar will have a 3,057sq.ft. commercial space with an occupancy of thirty-one (31) persons and the remainder will be utilized as bicycle parking, two (2) utility rooms, a

mechanical room, an elevator access and two (2) toilets. The proposed 1st floor will have a commercial space 3,499-sq. ft. in size with an occupancy of thirty-five (35) persons, lobby, a mechanical room, an elevator access and two (2) toilets. Each floor will consist of four (4) residential units that will have two bedrooms, a bathroom, living area, and a kitchenette. Two (2) terrace spaces are proposed for the residential units on the 5th floor. The roof bulkhead will consist of a rooftop recreation space 616.5-sq. ft. in size, elevator control room and will house the hot water heaters, vents, and exhausts. The current zoning designation is R6B with a C2-3 commercial overlay, which is mapped for residential districts in Gravesend, Kings County of Brooklyn, NY. The proposed use is consistent with existing zoning for the Site.

A copy of the Site Redevelopment Plan is provided as **Appendix A**.

2.0 DESCRIPTION OF PREVIOUS INVESTIGATIONS

2.1 Phase-I Environmental Site Assessment

A Phase-I ESA report was available for review to American Environmental Assessment & Solutions, Inc. (AEAS) during the initiation of Phase-II Environmental Subsurface Investigation (ESI). Based on the historical research done utilizing Sanborn Maps, the Site was developed prior to 1969 with a one-story building, and a parking area in the western portion of the lot. Past uses included a dairy, thrift shop and dry-cleaners. The Site was occupied by the following tenants: Grandview Dairy (circa 1970-1973), Stillwell Dairy (circa 1976), Wonder Hostess Thrift Shop (circa 1985 and 1997) and then converted to a drycleaner in 1999 (NYCDOB Job # 300846155. Ideal Cleaners circa 1999 through 2014). The Site is enclosed by the Brooklyn Public Library and a two-story mixed-use building to the east, a one-story commercial building (garage) to the north, a 2.5-story residential building to the south and Stillwell Avenue to west.

2.2 Phase-II Environmental Site Investigation

A Phase-II Environmental Subsurface Investigation was conducted by American Environmental Assessment & Solutions, Inc. (AEAS) on June 19 and 24, 2019, to characterize the subsurface soil and groundwater quality to comply with the E-Designation requirements set forth by New York City Department of City Planning (NYCDCP) for the Site. As part of the Phase-II, a total of seven (7) soil borings and three (3) temporary monitoring wells were collected for laboratory analysis in accordance with EPA Test Methods 8260 for Volatile Organic Compounds (VOCs), 8270 for Semi-Volatile Organic Compounds (SVOCs), 8081/8082 for Pesticides and Polychlorinated Biphenyls (PCBs), and Target Analyte List (TAL) Metals, and six (6) soil vapor probes were used for collecting soil vapor samples for laboratory analysis in accordance with EPA Test Method TO-15 for VOCs. One (1) selective soil and groundwater sample was analyzed for 1,4-dioxane and Per- and Polyfluoroalkyl Substances (PFASs). The scope also included a geophysical survey of the Site.

No anomalies indicative of tanks, drums, or buried objects were identified during the geophysical survey at the Site. No VOCs, SVOCs, Pesticides, or PCBs were detected exceeding their respective Restricted Use SCOs Part 375-6.8(b) Residential and/or Track 1 in any of the soil samples obtained. Tetrachloroethene was identified in four (4) of the borings, but well below

Track 1 UUSCOs. One (1) TAL Metal (Lead) was identified exceeding Restricted Use SCOs Part 375-6.8(b) Residential and five (5) metals including Chromium, Copper, Nickel, Mercury, and Zinc exceeded Track 1 in all soil borings. The compound 1,4-dioxane and Per- and Polyfluoroalkyl Substances (PFASs) were not detected in the soil sample.

Groundwater analysis identified four (4) VOCs and five (5) SVOCs exceeding their respective NYSDEC Groundwater Quality Standards (GQS). Soil vapor analytical results identified VOCs exceeding New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion, including petroleum-related VOCs (BTEX) and chlorinated VOCs (Tetrachloroethene (PCE) and Trichloroethene (TCE)). A copy of AEAS's Phase-II report is included as **Appendix B**.

3.0 REMEDIAL INVESTIGATION ACTIVITIES

3.1 Objective

On November 24, 2021, a revised RIWP was submitted by American Environmental Solutions Inc. (AES) and later approved by the NYSDEC. A copy of the RIWP is included as **Appendix C**. On May 5, 26-27, and 31, 2022, the fieldwork outlined in the RIWP was conducted at the Site by RSK which included the installation of ten (10) soil borings and six (6) groundwater monitoring wells where samples were collected for laboratory analysis for VOCs, SVOCs, Pesticides/PCBs, TAL Metals, 1,4-dioxane and Per- and Polyfluoroalkyl Substances (PFASs). Four (4) soil vapor probes were installed for soil vapor samples together with an ambient air sample which were analyzed for VOCs. The geophysical survey was completed on May 5, 2022, and onsite drilling activities (soil and groundwater) were completed on May 26-27, 2022. On May 31, 2022, RSK completed onsite soil gas and ambient air sampling and conducted the groundwater sampling on all the wells.

The procedures listed below were used as appropriate for the RI activities;

- Oversight of soil borings to evaluate soil conditions across the Site;
- Oversight of the installation of temporary wells to assess groundwater conditions and investigate the extent and migration of compounds of concern at the Site;
- Oversight of the installation of temporary soil vapor sampling points and collection of ambient air sample to assess soil vapor and outdoor air conditions at the Site;
- Soil and groundwater samples collected for analysis were placed in laboratory prepared sample jars capped with lids. The soil and groundwater samples were placed in a chilled cooler (4°C) and submitted to Phoenix Environmental Laboratories, Inc. (PEL) a state-certified laboratory in the City of Manchester, CT;
- Vapor samples collected for analysis were collected in laboratory prepared sample canisters. The vapor samples were submitted Phoenix Environmental Laboratories, Inc. (PEL) a state-certified laboratory in the City of Manchester, CT;
- Standard Chain-of-Custody procedures were implemented to track the samples;
- Review of the associated laboratory chronicles and Quality Assurance/Quality Control (QA/QC) reports indicates no issues concerning the validity of the analytical results. The reliability of laboratory analytical data as indicated by compliance with

sample holding times, ability to achieve method detection limits and precision and accuracy criteria for the analytical method; and

- To evaluate compliance with the existing remediation standards, RSK utilized the NYSDEC Part 375-6.8(a) NY-UNRES SCOs, appropriate Part 375-6.8(b) NY-RES SCOs (Residential, Commercial & Protection of Groundwater) and NYSDEC Part 703 Groundwater Quality Standards (GQS) (class GA) or Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS). Air sampling analytical results were compared to the New York State Department of Health (NYSDOH) guidance document, guideline values, and Decision Matrices.

3.2 Geophysical Survey

Prior to conducting the subsurface activities, a one-call utility mark-out was completed in accordance with local laws to locate buried utility lines. On May 5, 2022, a geophysical survey was performed by RSK throughout the entirety of the Site to investigate for the presence of underground utilities and anomalies prior to performing the work. All proposed locations were cleared with ground penetrating radar.

A metallic area was detected with the TW-6 in the northeastern corner of the Site. Approximate dimensions measure 8-feet by 8-feet. GPR transects over the area did not image any discernable features. RSK personnel conducted a utility survey on all accessible areas of the Site. The utilities identified include electric, water, unknown, and sanitary sewer. A copy of the Geophysical Survey is included as **Appendix D**.

3.3 Soil Investigation

Methodology

On May 26, 2022, RSK mobilized on-Site with the necessary drilling equipment to advance the ten (10) soil borings. The soil borings were advanced with a direct-push, track-mounted Geoprobe Models 54LT and 6610DT drill rigs. Drilling rods and sampling equipment were decontaminated between samples and borings to prevent cross-contamination. Soil cores were collected using a 5-foot long MacroCore sampler with a 5-foot-long acetate liner, which

was advanced by the direct-push drill rig using 5-foot-long rods. A lengthwise section of each acetate liner was removed with a splitting tool to expose the soil. The soil column was visually inspected for discoloration, monitored for odors, and classified in soil boring logs. Prior to soil sampling, the lithology was recorded and the soil column was field-screened with a PID that was calibrated using isobutylene. Soil boring logs are attached as **Appendix E**. Two (2) blind duplicate soil samples, two (2) matrix spike/matrix spike duplicate (MS/MSD) samples, one (1) field blank, two (2) PFAS field blank samples, one (1) trip blank and one (1) rinsate sample were collected as a quality assurance method. Duplicate soil samples were collected from soil boring locations SB-2 (14'-16') and SB-6 (14'-16'). Drill cuttings were containerized and appropriately labeled in DOT-approved 55-gallon drums.

At each boring locations, two (2) samples were collected at depth intervals 0-2 feet shallow, and 6-8 feet, and a third sample was collected within two feet of the groundwater interface at approximately 14-16 feet. In total, thirty (30) soil samples were kept from the ten (10) soil borings installed at the Site. All soil samples kept were analyzed for VOCs, SVOC, PCBs, Pesticides, TAL Metals, PFAS, and 1,4 Dioxane. Soil collected for PFAS analyses were placed in dedicated iced coolers prior to sending to the laboratory. The sampling activities were completed in accordance with the Sampling, Analysis and Assessment of PFAS under NYSDEC's Part 375 Remedial Programs guidance document dated October 2020.

Results

The soil analytical results were compared to the NYSDEC Part 375 Unrestricted (UUSCOs), Restricted Residential (RRSCOs), Commercial Soil Cleanup Objectives (CSCOs), and Protection to Groundwater standards (PGW). Laboratory analysis of the soil samples collected did not depict any exceedances in VOCs, SVOCs, PCBs, or 1,4-Dioxane. No elevated PID readings or odor/visual signs of contamination was identified. However, the results identified one (1) exceedance in 4,4'-DDT ranging from 6.3 µg/kg to 8.7 µg/kg in SB-6 and SB-10 above UUSCOs.

Analyte	NYSDEC UUSCO/RRSCO/CSCO/PGW (ug/kg)	Detections above Standards	Maximum Concentration (ug/kg)	Sample with max. concentration
4,4'-DDT	3.3/7,900/47,000/136,000	3/0/0/0	8.7	SB-10 (0'-2')

Analytical results identified exceedances in six (6) TAL Metals above UUSCOs, namely Chromium ranging from 30.4 mg/kg to 40.7 mg/kg in SB-1 through SB-4; Copper at 51.9 mg/kg and 70.9 mg/kg in SB-4 and SB-8, respectively; Lead ranging from 67.5 mg/kg to 309 mg/kg in SB-4 through SB-8 and SB-10; Mercury ranging from 0.27 mg/kg to 0.52 mg/kg in SB-4, SB-8, and SB-10; Nickel ranging from 30.9 mg/kg to 148 mg/kg in SB-1 through SB-10; and Zinc ranging from 109 mg/kg to 309 mg/kg in SB-5 through SB-8 and SB-10. Chromium was identified above the PGW standards in all soil samples.

Analyte	NYSDEC UUSCO/RRSCO/CSCO/PGW (mg/kg)	Detections above Standards	Maximum Concentration (mg/kg)	Sample with max. concentration
Chromium	30/NS/NS/19	5/0/0/21	40.7	SB-4 (6'-8')
Copper	50/270/270/1,720	2/0/0/0	70.9	SB-8 (0'-2')
Lead	63/400/1,000/450	7/0/0/0	309	SB-5 (0'-2')
Mercury	0.18/0.81/2.8/0.73	3/0/0/0	0.52	SB-4 (0'-2')
Nickel	30/310/310/130	26/0/0/0	148	SB-1 (14'-16')
Zinc	109/10,000/10,000/2,480	6/0/0/0	309	SB-5 (0'-2')

Analytical results of PFAS identified an exceedance in PFOS at 1.84 ng/g in SB-2 above UUSCO and PGW standards; and PFOA at 0.789 ng/g in SB-1 in UUSCOs.

Analyte	NYSDEC UUSCO/RRSCO/CSCO/PGW (ng/g)	Detections above Standards	Maximum Concentration (ng/g)	Sample with max. concentration
PFOS	0.88/44/440/1.0	1/0/0/1	1.84	SB-2 (14'-16')
PFOA	0.66/33/500/0.8	1/0/0/0	0.789	SB-1 (0'-2')

A summary table of data for chemical analyses performed on soil samples with regulatory comparison is included in **Tables 3** through **9**. A sampling location plan is attached as **Figure 3**. Soil boring logs are attached as **Appendix D**. A soil exceedances spider map is attached as **Figure 3A**.

3.4 Groundwater Investigation

Monitoring Well Installation

Six (6) permanent groundwater monitoring wells (GW-1 through GW-6) were required to be installed at the Site to assess groundwater quality. On May 26, 2022, RSK subcontracted with Coastal Environmental Solutions to provide and operate drilling equipment to install the six (6) permanent groundwater wells on Site. An RSK representative was onsite to oversee the drilling activities. The monitoring wells were installed using direct push drilling methods. The permanent

monitoring wells were constructed of 2-inch diameter schedule 40 PVC solid riser and machine slotted screen (0.020-inch slot size). The permanent monitoring wells were installed to a depth of approximately 25-feet which consisted of 10-feet of slotted screen and 15-feet of solid riser. Approximately 2-inches of silica sand was placed at the bottom of each boring as a base for the well screen and as part of the sand pack. The well screen and attached riser was placed within the borehole on top of the 2-inch sand layer and the remainder of the sand pack was installed within the borehole annulus to a level of about 3-feet below ground surface. A bentonite seal was installed immediately above the sand layer along with a lockable J-plug and an 8-inch flush-mount well cover. Approximately two (2) 55-gallon drums of well development water were purged from the monitoring wells. The monitoring wells were then surveyed using a benchmark.

Well construction logs are included as **Appendix E**. **Table 2** shows the water level data table.

Monitoring Well Sampling

On May 31, 2022, RSK returned to the Site to conduct groundwater sampling on all the wells. Sampling procedures conformed to the requirements of the NYSDEC and the USEPA. Groundwater samples were collected from the monitoring wells using the following methodology:

- A headspace reading was collected using a PID;
- Depth to water was measured using a Solinst water level indicator;
- Water-column was purged using a Solinst Peristaltic Pump Model 410;
- Field parameters including pH, oxidation-reduction potential, dissolved oxygen, temperature, and turbidity were collected utilizing a Horiba U-52 until field parameters stabilized;
- Upon stabilization of field parameters, dedicated tubing was used to obtain each groundwater sample; and
- Sample containers were placed into a chilled cooler and maintained at low temperature (below 4-degrees Celsius) for transport to the laboratory.

Upon arrival to the Site, all six (6) groundwater monitoring wells were gauged. Depth to groundwater from the benchmark ranged from 16.68-feet to 17.50-feet. Groundwater flow has been determined to be the southwest. As a quality assurance method, one (1) blind duplicate

groundwater sample, one (1) MS/MSD sample, one (1) trip blank sample, one (1) field blank and PFAS field blank samples were collected. Duplicate groundwater sample was collected from monitoring well SB-4/GW-4.

Per the approved RIWP, all monitoring wells were analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals, PFAS and 1,4 Dioxane. PFAS was sampled in accordance with the *NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substance (PFAS), dated October 2020.*

Results

Laboratory analytical results did not depict any exceedances of SVOCs, Pesticides, Herbicides, PCBs or 1,4-Dioxane above the Groundwater Quality Standards (GQS).

However, laboratory results identified a consistency of VOC exceedances: 2-Isopropyltoluene ranging from 7.3 mg/L to 8.6 mg/L in GW-1, GW-3, and GW-4; Benzene at 2.1 mg/L in GW-6; Isopropylbenzene ranging from 27 mg/L to 100 mg/L in GW-1, GW-3, GW-4, and GW-6; n-Butylbenzene ranging from 6.4 mg/L to 14 mg/L in GW-1, GW-3, and GW-4; n-Propylbenzene ranging from 26 mg/L to 140 mg/L in GW-1, GW-3, GW-4, and GW-6; and sec-Butylbenzene ranging from 11 mg/L to 17 mg/L in GW-1, GW-3, and GW-4.

Analyte	NYSDEC GQS (ug/L)	Detections above Standards	Maximum Concentration (ug/L)	Sample with max. concentration
2-Isopropyltoluene	5	3	8.6	SB-2/GW-1
Benzene	1	1	2.1	SB-6/GW-6
Isopropylbenzene	5	3	100	SB-3/GW-3
n-Butylbenzene	5	3	14	SB-4/GW-4
n-Propylbenzene	5	4	140	SB-3/GW-3
Sec-Butylbenzene	5	3	17	SB-2/GW-1

Laboratory analytical results of TAL Metals identified the following exceedances in the filtered samples: Iron ranging from 0.608 mg/L to 3.13 mg/L in GW-1, GW-3, GW-5, and GW-6; Magnesium at 40.8 mg/L in GW-1; Manganese ranging from 0.97 mg/L to 6.17 mg/L in all groundwater samples analyzed; and Sodium ranging from 57.6 mg/L to 394 mg/L in all groundwater samples analyzed.

Analyte	NYSDEC GQS (mg/L)	Detections above Standards	Maximum Concentration (mg/L)	Sample with max. concentration
Iron	0.5	4	3.13	SB-3/GW-3

Magnesium	35	1	40.8	SB-2/GW-1
Manganese	0.3	6	6.17	SB-3/GW-3
Sodium	20	6	292	SB-7/GW-2

Laboratory analytical results of PFAS identified the following exceedances: PFOS ranging from 10.4 ng/L to 130 ng/L in all groundwater samples collected and PFOA ranging from 14.6 ng/L to 222 ng/L in all groundwater samples analyzed. Both levels of PFOS and PFOA are significantly high in GW-6.

Analyte	**NYSDEC UUSCO/RRSCO/CSCO/PGW (ng/L)**	**Detections above Standards**	**Maximum Concentration (ng/L)**	**Sample with max. concentration**
PFOS	0.01	6	130	SB-6/GW-6
PFOA	0.01	6	222	SB-6/GW-6

Please see **Figure 3** for the Sample Location Map and **Figure 3B** for the groundwater exceedances spider map. All groundwater analytical results with regulatory comparison can be found in **Tables 10 through 17**. All groundwater low flow sampling sheets are included as **Appendix F**. A groundwater elevation and direction map is attached as **Figure 4.**

3.5 Soil Vapor and Ambient Air Investigation

Soil vapor and outdoor air sampling was conducted at the Site on May 31, 2022. Per approved RIWP, four (4) soil vapor samples (SV-1 through SV-4) and one (1) outdoor air sample (OA-1) were collected at the Site.

Methodology

- All soil vapor and outdoor air sampling was conducted in accordance with protocols outlined in the approved RIWP;
- To facilitate the collection of the soil vapor samples from beneath the Site, four (4) soil vapor sample points were advanced beneath the surface to a depth of approximately 10-feet below grade (approximately 4 to 6-feet above groundwater) with a track-mounted Geoprobe and by installing a Geoprobe post run tubing system (PRT) utilizing a 1 ¼-inch diameter probe rod with a PRT expendable point holder and expendable point through the existing surface with portable Geoprobe tooling and a handheld hammer drill. A ¼-inch polyethylene tubing attached to a PRT adapter was connected to the PRT point holder and was then extended approximately 18-inches beyond the surface needed to reach the

canister above the surface. The tubing was capped with a ¼-inch plastic end to prevent infiltration of foreign particles into the tube. The tubing was sealed with hydrated granular bentonite to the surface. Prior to sampling, 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. Helium was used as the tracer gas and a shroud was used to keep it in contact with the probe during testing. A portable monitoring device (Dielectric MGD-2002 Helium Leak Detector) was used to analyze a sample of soil vapor for the tracer prior to sampling. If the tracer sample results showed a significant presence of the tracer, the probe seals were adjusted to prevent infiltration. No tracer gas was detected in either of the vapor probes;

- The outdoor air sample was placed approximately 3-feet above surface within range of the breathing zone; and
- All air samples were collected using 6-liter, stainless-steel, cylindrical SUMMA canisters equipped with 8-hour flow controllers. The sampling canisters were provided by Phoenix Environmental Laboratories (PEL), of Manchester, CT. Following completion of the soil vapor sampling, the sampling points were backfilled and restored with concrete or asphalt to match surface grade. A sample log sheet was maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, and chain of custody protocols.

Results

Soil vapors associated with gasoline products (BTEX) and chlorinated VOCs were detected in all air samples, excluding the outdoor air sample. The total concentration of BTEX ranged from 644.3 ug/m³ to 5,364 ug/m³ in SV-1 through SV-4 and is at 6.37 ug/m³ in OA-1. Chlorinated VOCs 1,1,1-Trichloroethane, 1,1-Dichloroethene, Cis-1,2-Dichloroethene, Methylene Chloride, and Vinyl Chloride were not detected. However, the total concentration of the chlorinated VOCs ranged from 1.34 ug/m³ to 949.3 ug/m³. Tetrachloroethene (PCE) significantly exceeded ambient air levels at concentration 915 ug/m³ in SV-1; Trichloroethene (TCE) was detected at concentration ranging from 3.54 ug/m³ to 17.7 ug/m³ in in all vapor

samples except for SV-3; Carbon tetrachloride was detected at 0.51 ug/m³ in SV-3 and 0.47 ug/m³ in OA-1.

Additional compounds were detected: 1,2,4-Trimethylbenzene at concentration ranging from 79.6 ug/m³ to 614 ug/m³ in SV-1 through SV-4 and at 1.21 ug/m³ in OA-1; 1,3,5-Trimethylbenzene ranging from 18.2 ug/m³ to 136 ug/m³ in SV-1 through SV-4; Chloroform at 16.6 ug/m³ in SV-1; Chloromethane at 1.34 ug/m³ in SV-3 and 1.17 ug/m³ in OA-1; Hexane ranging from 112 ug/m³ to 1,100 ug/m³ in SV-1 through SV-4 and 2.09 ug/m³ in OA-1; and Styrene ranging from 1.82 ug/m³ to 19.5 ug/m³ in SV-1 through SV-4.

Analyte	NYSDOH Ambient Air Background Levels (ug/m³)	Detections above Standards	Maximum Concentration (ug/m³)	Sample with max. concentration
1,2,4-Trimethylbenzene	<1.0	5	614	SV-1
1,3,5-Trimethylbenzene	<1.0	4	136	SV-1
Benzene	<1.6-4.7	4	259	SV-2
Ethylbenzene	<4.3	4	331	SV-1
Hexane	<1.5	5	1,100	SV-2
M & p-Xylenes	<4.3	5	1,370	SV-1
o-Xylene	<4.3	4	394	SV-1
Styrene	<1.0	4	19.5	SV-1
Toluene	1.0-6.1	5	3,030	SV-1
Chloroform	<2.4	1	16.6	SV-1
Chloromethane	<1.0-1.4	2	1.34	SV-3
Trichloroethene	<1.7	3	17.7	SV-1

Please see **Figure 3** for the Sample Location Map and **Figure 3C** for the soil vapor & outdoor air exceedances spider map. All analytical results of the air samples with regulatory comparison can be found in **Table 18**.

3.6 Sample Analysis

Soil, groundwater, and soil vapor samples were submitted to Phoenix Environmental Laboratories, a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory, in Manchester, CT, for full analysis.

Soil and groundwater samples were analyzed using:

- Volatile Organic Compounds by EPA Method 8260;
- Semi-volatile Organic Compounds by EPA method 8270;
- Pesticides/PCBs by EPA Method 8081/8082;

- Target Analyte List metals by EPA Method 6010 and 7471 (All Groundwater samples were analyzed for both filtered (dissolved) and unfiltered (total) metals); and
- PFAS (NYSDC Analyte List) by LC-MS/MS via EPA 537.1 and 1,4-Dioxane via EPA Method 8270 SIM.

Air samples were analyzed using:

- Volatile Organic Compounds by USEPA Method TO-15.

All laboratory analytical data reports for the soil, groundwater, and air samples collected since the RIWP approval are included as **Appendix G.**

3.7 Community Air Monitoring Plan

In accordance with DER-10, a Community Air Monitoring Plan was implemented at the Site during all ground-intrusive activities, such as, but not limited to drilling of boreholes and installation of monitoring wells. A record of all CAMP logs is included as **Appendix H**.

3.8 Fish and Wildlife Resources Impact Analysis (FWRIA)

In accordance with DER-10, the purpose of the FWRIA is to identify actual or potential impacts to fish and wildlife resources from site contaminants of ecological concern. The Lower New York Bay is 1.15-miles southwest of the Site. An FWRIA is not required since there are no federal, state or local natural resources, including waterways, wildlife refuges, wetlands or critical habitats of endangered or threatened species on, adjacent to, or impacted by the Site.

4.0 QUALITY ASSURANCE/ QUALITY CONTROL

4.1 Quality Assurance/Quality Control Procedures

QA/QC procedures were used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and compatibility associated with the sampling and analysis for this investigation. Field QA/QC procedures were used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses were used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. QA/QC samples included field duplicates, matrix spikes, matrix spike duplicates, field blanks and trip blanks, appropriately at a frequency of 1 per 20 samples. Calibration certificates for all equipment used in the field is attached as **Appendix I**. A summary of the field and laboratory QA/QC procedures is provided below.

4.2 Field QA/QC

Field QA/QC included the following procedures:

- Calibration of field equipment, including PID, on a daily basis;
- Use of dedicated and/or disposable field sampling equipment;
- Proper sample handling and preservation;
- Proper sample chain of custody documentation; and
- Completion of report logs.

The above procedures were executed as follows:

- Disposable sampling equipment, including acetate sleeves, latex gloves, and disposable bailers (or sample tubing), were used to minimize cross-contamination between samples;
- For each of the parameters analyzed, a sufficient sample volume was collected to adhere to the specific analytical protocol, and provide sufficient sample for reanalysis if necessary;
- Because plasticizers and other organic compounds inherent in plastic containers may contaminate samples requiring organic analysis, samples were collected in glass

containers, with the exception of the nitrate-preserved groundwater sample for metals analysis;

- Appropriate sample preservation techniques, including cold temperature storage at 4° C, were utilized to ensure that the analytical parameters concentrations do not change between the time of sample collection and analysis; and
- Samples were analyzed prior to the expiration of the respective holding time for each analytical parameter to ensure the integrity of the analytical results.

4.3 Sample Custody

Sample handling in the field conformed to appropriate sample custody procedures. Field custody procedures include proper sample identification, chain-of-custody forms, and packaging and shipping procedures. Sample labels were attached to all sampling bottles before field activities begin to ensure proper sample identification. Each label identified the site and sample location. Styrofoam or bubble wrap was used to absorb shock and prevent breakage of sample containers. Ice or ice packs were placed in between the plastic bags for sample preservation purposes.

After each sample was collected and appropriately identified, the following information were entered into the chain-of-custody form:

- Site name and address;
- Sampler(s)' name(s) and signature(s);
- Names and signatures of persons involved in the chain of possession of samples;
- Sample number;
- Number of containers;
- Sample location;
- Date and time of collection;
- Type of sample, sample matrix and analyses requested;
- Preservation used (if any); and
- Any pertinent field data collected (pH, temperature, conductivity, Dissolved Oxygen [DO])

The sampler signed and dated the "Relinquished" blank space prior to removing one copy of the custody form and sealing the remaining copies of the form, in a Ziploc plastic bag taped to the underside of the sample cooler lid. The sample cooler was sealed with tape prior to delivery or shipment to laboratory.

4.4 Report Logs

Field logs and boring logs were completed during the course of this investigation. A field log was completed on a daily basis which describes all field activities including:

- Project number, name, manager, and address;
- The date and time;
- The weather conditions;
- On-site personnel and associated affiliations;
- Description of field activities; and
- Pertinent sample collection information including sample identification numbers, description of samples, location of sampling points, number of samples taken, method of sample collection, and any factors that may affect its quality, time of sample collection, name of collector, and field screening results.

A boring/monitoring well log was completed for each boring/monitoring well and included the following information:

- Project number, name, manager, and location;
- The date and time;
- Drilling company and method used;
- Boring number;
- Total boring depth and water table depths; and
- Pertinent soil sample information including sample number, interval, depth, amount recovered, color, composition, percent moisture, visual and olfactory observations of contamination, and PID readings.

4.5 Laboratory QA/QC

An ELAP-certified laboratory was used for all sample analyses. All samples were delivered to the laboratory within 24-hours of sample collection. Samples were received by laboratory personnel, who inspected the sample cooler(s) to check the integrity of the custody seals. The

cooler(s) were then opened, the samples unpackaged, and the information on the chain-of-custody form examined. If the shipped samples match those described on the chain-of-custody form, the laboratory custodian signed the form and recorded problems in the "Remarks" box. The custodian then immediately notified the Project Manager so appropriate follow-up steps can be implemented on a timely basis.

A record of the information detailing the handling of a particular sample through each stage of analysis was maintained by the laboratory. The record includes:

- Job reference, sample matrix, sample number, and date sampled;
- Date and time received by laboratory, holding conditions, and analytical parameters;
- Extraction date, time, and extractor's initials (if applicable), analysis date, time, and analyst's initials; and
- QA batch number, date reviewed, and reviewer's initials.

Analytical data obtained during the RIR were validated to evaluate the usability of the data. Data Usability Summary Reports (DUSRs) are provided in **Appendix J.** The DUSRs indicated which data are subject to limitation and identify certain data that are flagged as rejected and should not be used.

All data was qualified as usable with the following data review summary:

- The PFAS results for soil samples reported were acceptable.
- The PFAS results for groundwater samples reported were acceptable.
- The VOC, Pesticides, PCBs, Metals, Total Cyanide and Hexavalent Chromium results reported were acceptable.
- The SVOC results reported were acceptable except for benzidine and 3,3'-dichlorobenzidine in FB-1 and Equipment blank samples.
- The Volatile Air data packages were acceptable as reported.

5.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT (QHHEA)

As described in Appendix 3B of DER-10, the overall purpose of the QHHEA is to evaluate and document how people might be exposed to Site related contaminants of concern (COC), and to identify and characterize the potentially exposed population(s) now and under the reasonably anticipated future use of the Site. The identification of exposure pathways describes the route that the COC takes to travel from the source to the receptor. An identified pathway indicates that the potential for exposure exists and it does not imply that exposures actually occur.

The sampling data from the RI were evaluated to determine whether there is any health risk under current and future conditions by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant, fate and transport. The following section details the QHHEA based on the data collected during the RI:

Known and Potential Contaminant Sources

Soil:

- One (1) Pesticides: 4,4-DDT were detected above the UUSCOs.
- Metals including Chromium, Copper, Lead, Mercury, Nickel and Zinc exceeded the UUSCOs; whereas Nickel concentrations also exceeded PGW, and Lead exceeds RRSCOs in shallow sample as outlined in the Phase-II Report by AEAS.
- Two (2) PFAS: PFOA at 0.789 µg/kg and PFOS at a maximum of 1.84 µg/kg, above UUSCOs; whereas PFOS exceeded PGW.

Groundwater:

- VOCs including 2- Isopropyl toluene, Benzene, Isopropyl benzene, n-Butylbenzene, n-Propyl benzene, and sec-Butylbenzene exceeded NYSDEC GQS list.
- Metals including Iron, Magnesium, Manganese, and Sodium exceeded NYSDEC GQS list.
- Two (2) PFAS: PFOA at 222 µg/kg and PFOS at a maximum of 130 µg/kg, exceeding GQS significantly.

Soil Vapor:

- VOCs including 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Chloroform, Chloromethane, Hexane, Styrene, BTEX, PCE (Tetrachloroethene), Trichloroethene (TCE) and Carbon Tetrachloride (CTC) were detected above NYSDOH Soil Outdoor Background Levels.

Nature, Extent, Fate, and Transport of Contaminants

Soil:

A pesticide was found in shallow (0-2 feet) soils at elevated concentrations towards the back (eastern) portion of the Site. Heavy metals were found throughout the Site at concentrations above the SCOs, and at higher levels towards the front portion of the lot. PFOA and PFOS were identified at depths (0-2 feet and 14-16 feet) on the most northern corner of the Site. All areas of Site related COCs will be excavated and removed as part of the proposed redevelopment.

Groundwater:

Six (6) VOCs including 2- Isopropyl toluene, Benzene, Isopropyl benzene, n-Butylbenzene, n-Propyl benzene, and sec-Butylbenzene; nine (9) SVOCs including Acenaphthene, Fluoranthene, Naphthalene, Benzo(a)Anthracene, Benzo(b)Fluoranthene, Benzo(k)Fluoranthene, Bis(2-ethylhexyl) phthalate, Chrysene, and Indeno(1,2,3-cd) pyrene; four (4) Iron, Magnesium, Manganese, and Sodium; and two (2) PFAS (PFOA and PFOS) were all detected throughout the Site.

Soil Vapor:

Ten (10) VOCs including 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Chloroform, Chloromethane, Hexane, Styrene, BTEX, PCE (Tetrachloroethene), Trichloroethene (TCE) and Carbon Tetrachloride (CTC) were detected throughout the Site.

Receptor Populations

On-Site Receptors: The Site is currently a vacant parcel enclosed with an 8-ft. high wooden construction fence. The proposed future use of the Site will consist of a new five-story (15,912.60-sq.ft.) mixed-use building with a commercial space in the cellar and 1st floor, and sixteen (16) residential units 2nd floor through 5th floor. The layout will consist of no front yard, a

38-feet paved rear yard to be utilized for off-street parking and a 14-feet 10-inch side yard to be utilized as a paved driveway. The proposed cellar depth (top of slab) for the new building will be 10-feet 4-inches bgs No uncapped areas or landscaping are proposed as part of this redevelopment. Onsite receptors are limited to contractors, trespassers, site representatives and visitors granted access to the Site. During construction, potential on-site receptors include construction workers, site representatives, and visitors. Under proposed future conditions, potential on-site receptors include adult and child building residents, workers and visitors.

Off-Site Receptors: Potential off-site receptors within a 500-foot radius of the Site include Brooklyn Public Library, (K-12), and Happy Club Children's Centre (Day-care), PS/IS 686 Brooklyn Middle School, Gold Material Montessori School, Garden of Eden Home for Adults (Assisted living facility) and Little Scholars Day Care Centre. No hospital was identified within a 500-ft. radius of the Site. Commercial and construction workers; pedestrians; and trespassers based on the following land uses within 500-feet of the Site:

1. Municipal and Institutional Buildings – existing and future
2. Commercial Businesses – existing and future
3. Residential Buildings – existing and future
4. Building Construction/ Renovation – existing and future
5. Pedestrians, Trespassers, Cyclists – existing and future
6. Schools – existing and future

Potential Routes of Exposure

Three (3) potential primary routes exist by which chemicals can enter the body: ingestion, inhalation, and dermal absorption. Exposure can occur based on the following potential media:

- Ingestion of groundwater or fill/ soil;
- Inhalation of vapors or particulates; and
- Dermal absorption of groundwater or fill/ soil.

Potential Exposure Points

Current Conditions: The front of the Site is capped with concrete and there are no potential exposure pathways from ingestion, inhalation, or dermal absorption of soil/ fill. The remainder of the Site is uncapped, and potential exposure points include inhalation, ingestion, or

dermal contact with the surface soils, subsurface soils, and soil vapor that may volatilize during excavation. Groundwater is not exposed at the Site. The Site is served by the public water supply and groundwater is not used at the Site for potable supply and there is no potential for exposure. Because the Site is currently undeveloped, there is no potential for soil vapor to accumulate on Site.

Construction/ Remediation Conditions: During the remedial action, onsite workers will come into direct contact with surface and subsurface soils as a result of on-Site construction and excavation activities. On-Site construction workers potentially could ingest, inhale, or have dermal contact with exposed impacted soil and fill. Similarly, off-Site receptors could be exposed to dust and vapors from on-Site activities. The maximum excavation for the redevelopment is 17.50-feet bgs. Due to the depth of groundwater ranging from 16.68-feet to 17.50-feet bgs, direct contact with groundwater is expected during excavation of the proposed elevator pit. In such an event, groundwater will be purged and stationed on-site in a frac tank for appropriate legal disposal to a permitted facility.

The following table summarizes the QHHEA:

Environmental Media & Exposure Route	**Human Exposure Assessment**
Direct contact with surface soils (and incidental ingestion)	People can come into contact if they trespass on the Site.
Direct contact with subsurface soils (and incidental ingestion)	People can come into contact if they complete ground-intrusive work at the Site.
Ingestion of groundwater	Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply.
Direct contact with groundwater	People may come into contact if they complete ground-intrusive work in the event groundwater is encountered.
Inhalation of air (exposures related to soil	A monitoring program is being implemented to

vapor intrusion)	verify if additional actions will be needed to address exposures to soil vapor intrusion.
Direct contact and incidental ingestion of Surface water	No sources of surface water were noted on-Site or in the vicinity.

6.0 CONCEPTUAL SITE MODEL

The following section explains the occurrence of contaminant source and their fate and transport at the Site in the context of the local Site stratigraphy and hydrogeology.

History

A Phase-I ESA report was available for review to American Environmental Assessment & Solutions, Inc. (AEAS) during the initiation of Phase-II Environmental Subsurface Investigation (ESI). Based on the historical research done utilizing Sanborn Maps, the Site was developed prior to 1969 with a one-story building, and a parking area in the western portion of the lot. Past uses included a dairy, thrift shop and dry-cleaners. The Site was occupied by the following tenants: Grandview Dairy (circa 1970-1973), Stillwell Dairy (circa 1976), Wonder Hostess Thrift Shop (circa 1985 and 1997) and then converted to a drycleaner in 1999 (NYCDOB Job # 300846155. Ideal Cleaners circa 1999 through 2014). The Site is enclosed by the Brooklyn Public Library and a two-story mixed-use building to the east, a one-story commercial building (garage) to the north, a 2.5-story residential building to the south and Stillwell Avenue to west.

Contamination Background

Per the Phase-II ESI conducted by AEAS in July 2019, no VOCs, SVOCs, pesticides, PCBs, 1,4-Dioxane and PFAS were detected in soil samples. Several metals, below RRSCOs, were detected. However, in groundwater, petroleum-related four (4) VOCs and five (5) SVOCs were detected above GQS. No PCBs, pesticides, TAL metals or PFAS were detected above GQS were detected. Soil vapor samples showed significant exceeding concentrations of BTEX-related CVOCs contaminants.

As discussed in *sections 3.3 through 3.5*, a similar array of contaminants resulted from the RI activities conducted on-Site by RSK in May 2022. The primary COCs are petroleum-related (BTEX) VOCs and SVOCs and heavy metals in groundwater samples and petroleum-related VOCs and CVOCs in soil vapors, identified with significant concentrations above the UUSCOs and PGW (Chromium in soil) Site-wide. These COCs are attributed evident from the long-term on-Site drycleaning operations and off-site spills have impacted the subsurface media.

The petroleum-related compounds are attributed to the spill site located at 125 Kings Highway, approximately 150-feet north of the Site at a higher gradient, historically utilized as a gasoline/service station with four (4) on-site 4,000-gallon gasoline USTs (PBS ID 2-151378). The tanks were closed by removal on March 13, 19, and 20, 2019 (NYCDOB Job # 321905042, December 12, 2018), and the spill was recorded on March 15, 2019 (Spill # 1812287); consequent to the leaking USTs. Based on the OER documents research (OER Site # 21EHAZ037K), remediation and construction are completed and the database was last updated on July 1, 2022. The soil samples indicated no exceedances in VOCs, and PCBs, however, one (1) SVOC, five (5) metals and two (2) PFAS compounds were detected. Groundwater samples indicated significant exceedances in petroleum-related compounds (BTEX) VOCs and SVOCs, two (2) metals and several PFAS compounds. Soil vapor samples indicated elevated levels of petroleum-related VOCs (ranging from 33.2 ug/m³ to 8,970 ug/m³), and CVOCs (ranging from 13.3 ug/m³ (TCE) to 668 ug/m³ (PCE)).

Another spill site located at 137 Kings Highway (east adjacent to 125 Kings Highway) was registered with the NYSDEC Spill database for a #2 fuel oil spill in June 15, 1998 (9803303), and closed on November 10, 1998. A 275-gallon waste/used oil AST is also registered with the PBS unit as ID 2-603523. Per the NYCDOB search, the site was historically utilized as a parking lot with an office building circa 1959 (CO # 167139), a repair/lubrication shop for vehicles, no body work, with a loading dock and a fuel oil approval # 8491 dated 12/12/1963, circa 1964 (CO # 186981), a repair/lubrication shop for vehicles, no body work, and a loading dock circa 1983 (CO #221076), and a chemical manufacturer circa 1919 (CO # 120).

Remedial measures

In order to remediate the contamination, and avoid human exposure as discussed in *Section 5.0,* excavation of the contaminated media will be conducted, along with incorporating a 20-mil, or better, VOC-retarding vapor barrier and an active SSD system within the building footprint to mitigate the vapors and capping off with a concrete slab.

7.0 CONCLUSIONS & RECOMMENDATIONS

Soil analytical results identified an exceedance of 4,4'-DDT above UUSCOs in SB-6 and SB-10. TAL Metals, including Chromium, Copper, Lead, Mercury, Nickel, and Zinc, were detected above UUSCOs; whereas Chromium exceeded the PGW standards in twenty-one (21) out of thirty (30) samples. Lead was identified to exceed RRSCOs in SB-4 (0'-2') as outlined in the Phase-II Report by AEAS. PFAS compounds PFOS and PFOA were also detected above UUSCOs located in the northeastern corner of the Site. PFOS also exceeded PGW standards.

Groundwater analytical results identified an exceedance of benzene-related VOC contaminants above NYSDEC GQS throughout the Site except for the samples taken from the southwestern section of the Site. Heavy metals including Iron, Magnesium, Manganese, and Sodium were detected above NYSDEC GQS in groundwater samples throughout the Site. PFAS compounds including PFOS and PFOA were detected in all groundwater samples analyzed; however, concentrations of PFOS and PFOA were significantly high in the samples taken from the southeastern corner of the Site (GW-6).

Soil Vapor analytical results identified exceeding petroleum-related (BTEX) contaminants and chlorinated solvents including PCE and TCE above the ambient air background levels, beneath the Site. Soil Vapor location SV-1 is considered an Area of Concern due to significant exceedances in petroleum-related VOCs (BTEX) and chlorinated VOCs, primarily Tetrachloroethene.

The analytical results are indicative of significant environmental impact from the former dry-cleaning operations on-Site. These results are consistent with analytical data obtained from AEAS's Phase-II report, where soil analysis detected TAL Metals contaminants exceeding the UUSCOs in all soil borings, groundwater analysis identified VOCs above the NYSDEC GQS, and soil vapor analytical results identified exceeding concentrations of petroleum-related VOCs (BTEX) and chlorinated VOCs. The remediation of the heavy metals impacted soil, and VOCs and heavy metals impacted groundwater will be addressed in the RAWP. Additionally, on-Site soil vapor intrusion concerns will be addressed by the installation and operation of a full-scale on-Site SSD system, which will be installed beneath the proposed development.

TABLES

Table 1

Sample Information
1665 Stillwell Avenue, Brooklyn, NY

SAMPLE ID	Date	Total Depth (Feet)	Equipment	Construction Materials
SB-1 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-1 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-1 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-2 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-2 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-2 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-3 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-3 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-3 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-4 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-4 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-4 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-5 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-5 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-5 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-6 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-6 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-6 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-7 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-7 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-7 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-8 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-8 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-8 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-9 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-9 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-9 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SB-10 (0'-2')	5/26/2022	2	Geoprobe track-mounted drill rig	-
SB-10 (6'-8')	5/26/2022	8	Geoprobe track-mounted drill rig	-
SB-10 (14'-16')	5/26/2022	16	Geoprobe track-mounted drill rig	-
SV-1	06/01/2022	10	-	Geoprobe PRT & Tubing
SV-2	06/01/2022	10	-	Geoprobe PRT & Tubing
SV-3	06/01/2022	10	-	Geoprobe PRT & Tubing
SV-4	06/01/2022	10	-	Geoprobe PRT & Tubing
OA-1	06/01/2022	-	-	-

Table 2

Water Level Data Table

1665 Stillwell Avenue, Brooklyn, NY

Monitoring Well ID	Installation Date	Well Depth (Feet)	Depth to Groundwater (Feet bgs)	Height of Water Column (Feet)
GW-1	5/31/2022	25.60	17.50	8.10
GW-2	5/31/2022	25.00	17.15	7.85
GW-3	5/31/2022	25.05	16.68	8.37
GW-4	5/31/2022	25.02	17.35	7.67
GW-5	5/31/2022	25.50	17.19	8.31
GW-6	5/31/2022	25.00	16.70	8.30

Table 3

Soil Analytical Results and Data Usability Summary
Volatile Organic Compounds
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (µg/kg)		SB-1 (6'-8') 06/01/2022 (µg/kg)		SB-1 (14'-16') 06/01/2022 (µg/kg)		SB-2 (0'-2') 06/01/2022 (µg/kg)		SB-2 (6'-8') 06/01/2022 (µg/kg)		SB-2 (14'-16') 06/01/2022 (µg/kg)		SB-3 (0'-2') 06/01/2022 (µg/kg)		SB-3 (6'-8') 06/01/2022 (µg/kg)		SB-3 (14'-16') 06/01/2022 (µg/kg)		SB-4 (0'-2') 06/01/2022 (µg/kg)		SB-4 (6'-8') 06/01/2022 (µg/kg)	
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,1-Trichloroethane	680	100,000	500,000	680	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,2-Trichloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloroethane	270	26,000	240,000	270	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloroethene	330	100,000	500,000	330	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,3-Trichlorobenzene	NS	NS	NS	NS	ND	4.3 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,3-Trichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND	4.3 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trimethylbenzene	3,600	52,000	190,000	3,600	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dibromoethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichlorobenzene	1,100	100,000	500,000	1,100	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichloroethane	20	3,100	30,000	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3,5-Trimethylbenzene	8,400	52,000	190,000	8,400	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichlorobenzene	2,400	49,000	280,000	2,400	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,4-Dichlorobenzene	1,800	13,000	130,000	1,800	ND	4.3 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,2-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Chlorotoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Hexanone	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Isopropyltoluene**	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Chlorotoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Methyl-2-pentanone	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Acetone	50	100,000	500,000	50	ND	21 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	27 UJ	ND	NQ	ND	NQ	ND	NQ
Acrylonitrile	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzene**	60	4,800	44,000	60	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromobenzene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromochloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromodichloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromoform	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromomethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Carbon Disulfide	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Carbon tetrachloride	760	2,400	22,000	760	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chlorobenzene	1,100	100,000	500,000	1,100	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloroform	370	49,000	350,000	370	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (µg/kg)		SB-1 (6'-8') 06/01/2022 (µg/kg)		SB-1 (14'-16') 06/01/2022 (µg/kg)		SB-2 (0'-2') 06/01/2022 (µg/kg)		SB-2 (6'-8') 06/01/2022 (µg/kg)		SB-2 (14'-16') 06/01/2022 (µg/kg)		SB-3 (0'-2') 06/01/2022 (µg/kg)		SB-3 (6'-8') 06/01/2022 (µg/kg)		SB-3 (14'-16') 06/01/2022 (µg/kg)		SB-4 (0'-2') 06/01/2022 (µg/kg)		SB-4 (6'-8') 06/01/2022 (µg/kg)	
cis-1,2-Dichloroethene	250	100,000	500,000	250	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
cis-1,3-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibromochloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibromomethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dichlorodifluoromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Ethylbenzene	1,000	41,000	390,000	1,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	1.9	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachlorobutadiene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Isopropylbenzene**	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
m&p-Xylene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	12	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methyl Ethyl Ketone	120	100,000	500,000	120	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methyl t-butyl ether (MTBE)	930	100,000	500,000	930	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methylene chloride	50	100,000	500,000	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Naphthalene	12,000	100,000	500,000	NS	ND	4.3 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
n-Butylbenzene**	12,000	100,000	500,000	12,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
n-Propylbenzene**	3,900	100,000	500,000	3,900	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
o-Xylene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	5.4	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Xylenes (Mixed)	260	100,000	500,000	1,600	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	17.4	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
p-Isopropyltoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
sec-Butylbenzene**	11,000	100,000	500,000	11,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Styrene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
tert-Butylbenzene	5,900	100,000	500,000	5,900	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Tetrachloroethene	1,300	19,000	150,000	1,300	520	NQ	14	NQ	ND	NQ	1.3	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Tetrahydrofuran (THF)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Toluene	700	100,000	500,000	700	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,2-Dichloroethene	190	100,000	500,000	190	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,3-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,4-dichloro-2-butene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichloroethene	470	21,000	200,000	470	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichlorofluoromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichlorotrifluoroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Vinyl chloride	20	900	13,000	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (µg/kg		SB-5 (0'-2') 06/01/2022 (µg/kg)		SB-5 (6'-8') 06/01/2022 (µg/kg)		SB-5 (14'-16') 06/01/2022 (µg/kg)		SB-6 (0'-2') 06/01/2022 (µg/kg)		SB-6 (6'-8') 06/01/2022 (µg/kg)		SB-6 (14'-16') 06/01/2022 (µg/kg)		SB-7 (0'-2') 06/01/2022 (µg/kg)		SB-7 (6'-8') 06/01/2022 (µg/kg)		SB-7 (14'-16') 06/01/2022 (µg/kg)		SB-8 (0'-2') 06/01/2022 (µg/kg	
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,1-Trichloroethane	680	100,000	500,000	680	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,2-Trichloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloroethane	270	26,000	240,000	270	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloroethene	330	100,000	500,000	330	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,3-Trichlorobenzene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,3-Trichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trimethylbenzene	3,600	52,000	190,000	3,600	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dibromoethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichlorobenzene	1,100	100,000	500,000	1,100	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichloroethane	20	3,100	30,000	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3,5-Trimethylbenzene	8,400	52,000	190,000	8,400	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichlorobenzene	2,400	49,000	280,000	2,400	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,4-Dichlorobenzene	1,800	13,000	130,000	1,800	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,2-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Chlorotoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Hexanone	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Isopropyltoluene**	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Chlorotoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Methyl-2-pentanone	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Acetone	50	100,000	500,000	50	11	NQ	ND	NQ	ND	NQ	ND	21 UJ	ND	NQ	ND	NQ	ND	24 UJ	49	NQ	ND	NQ	ND	NQ	ND	NQ
Acrylonitrile	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzene**	60	4,800	44,000	60	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromobenzene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromochloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromodichloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromoform	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromomethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Carbon Disulfide	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	1.2	NQ	ND	NQ	ND	NQ	ND	NQ
Carbon tetrachloride	760	2,400	22,000	760	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chlorobenzene	1,100	100,000	500,000	1,100	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloroform	370	49,000	350,000	370	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
cis-1,2-Dichloroethene	250	100,000	500,000	250	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
cis-1,3-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibromochloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibromomethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dichlorodifluoromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	4.9 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (µg/kg		SB-5 (0'-2') 06/01/2022 (µg/kg)		SB-5 (6'-8') 06/01/2022 (µg/kg)		SB-5 (14'-16') 06/01/2022 (µg/kg)		SB-6 (0'-2') 06/01/2022 (µg/kg)		SB-6 (6'-8') 06/01/2022 (µg/kg)		SB-6 (14'-16') 06/01/2022 (µg/kg)		SB-7 (0'-2') 06/01/2022 (µg/kg)		SB-7 (6'-8') 06/01/2022 (µg/kg)		SB-7 (14'-16') 06/01/2022 (µg/kg)		SB-8 (0'-2') 06/01/2022 (µg/kg	
Ethylbenzene	1,000	41,000	390,000	1,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachlorobutadiene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Isopropylbenzene**	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
m&p-Xylene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.96	NQ	ND	NQ	ND	NQ
Methyl Ethyl Ketone	120	100,000	500,000	120	3.9	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	9.2	NQ	ND	NQ	ND	NQ	ND	NQ
Methyl t-butyl ether (MTBE)	930	100,000	500,000	930	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methylene chloride	50	100,000	500,000	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	4.9 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Naphthalene	12,000	100,000	500,000	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
n-Butylbenzene**	12,000	100,000	500,000	12,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
n-Propylbenzene**	3,900	100,000	500,000	3,900	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
o-Xylene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Xylenes (mixed)	260	100,000	500,000	1,600	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
p-Isopropyltoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
sec-Butylbenzene**	11,000	100,000	500,000	11,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Styrene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
tert-Butylbenzene	5,900	100,000	500,000	5,900	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Tetrachloroethene	1,300	19,000	150,000	1,300	ND	NQ	ND	NQ	ND	NQ	ND	NQ	1.0	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Tetrahydrofuran (THF)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Toluene	700	100,000	500,000	700	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.79	NQ	0.90	NQ	ND	NQ
trans-1,2-Dichloroethene	190	100,000	500,000	190	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,3-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,4-dichloro-2-butene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichloroethene	470	21,000	200,000	470	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichlorofluoromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichlorotrifluoroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Vinyl chloride	20	900	13,000	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (µg/kg)		SB-8 (14'-16') 06/01/2022 (µg/kg)		SB-9 (0'-2') 06/01/2022 (µg/kg)		SB-9 (6'-8') 06/01/2022 (µg/kg)		SB-9 (14'-16') 06/01/2022 (µg/kg)		SB-10 (0'-2') 06/01/2022 (µg/kg)		SB-10 (6'-8') 06/01/2022 (µg/kg)		SB-10 (14'-16') 06/01/2022 (µg/kg)	
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,1-Trichloroethane	680	100,000	500,000	680	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1,2-Trichloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloroethane	270	26,000	240,000	270	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloroethene	330	100,000	500,000	330	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,1-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,3-Trichlorobenzene	NS	NS	NS	NS	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,3-Trichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trimethylbenzene	3,600	52,000	190,000	3,600	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dibromoethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichlorobenzene	1,100	100,000	500,000	1,100	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichloroethane	20	3,100	30,000	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3,5-Trimethylbenzene	8,400	52,000	190,000	8,400	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichlorobenzene	2,400	49,000	280,000	2,400	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,4-Dichlorobenzene	1,800	13,000	130,000	1,800	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,2-Dichloropropane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Chlorotoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Hexanone	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Isopropyltoluene**	NS	NS	NS	NS	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Chlorotoluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Methyl-2-pentanone	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Acetone	50	100,000	500,000	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	38 UJ	ND	24 UJ	ND	23 UJ	8.8	8.8 UJ
Acrylonitrile	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzene**	60	4,800	44,000	60	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromobenzene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromochloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromodichloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromoform	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bromomethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Carbon Disulfide	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Carbon tetrachloride	760	2,400	22,000	760	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chlorobenzene	1,100	100,000	500,000	1,100	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloroform	370	49,000	350,000	370	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
cis-1,2-Dichloroethene	250	100,000	500,000	250	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
cis-1,3-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibromochloromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibromomethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dichlorodifluoromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	4.6 UJ	ND	NQ
Ethylbenzene	1,000	41,000	390,000	1,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachlorobutadiene	NS	NS	NS	NS	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Isopropylbenzene**	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
m & p-Xylene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methyl Ethyl Ketone	120	100,000	500,000	120	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methyl t-butyl ether (MTBE)	930	100,000	500,000	930	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methylene chloride	50	100,000	500,000	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	4.6 UJ	ND	NQ
Naphthalene	12,000	100,000	500,000	NS	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
n-Butylbenzene**	12,000	100,000	500,000	12,000	ND	NQ	ND	5 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
n-Propylbenzene**	3,900	100,000	500,000	3,900	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
o-Xylene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Xylenes (mixed)	260	100,000	500,000	1,600	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
p-Isopropyl toluene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
sec-Butylbenzene**	11,000	100,000	500,000	11,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Styrene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
tert-Butylbenzene	5,900	100,000	500,000	5,900	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Tetrachloroethene	1,300	19,000	150,000	1,300	0.77	NQ	ND	NQ	5.7	NQ	ND	NQ	ND	NQ	520	NQ	ND	NQ	1.9	NQ
Tetrahydrofuran (THF)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Toluene	700	100,000	500,000	700	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

trans-1,2-Dichloroethene	190	100,000	500,000	190	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,3-Dichloropropene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
trans-1,4-dichloro-2-butene	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichloroethene	470	21,000	200,000	470	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichlorofluoromethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Trichlorotrifluoroethane	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Vinyl chloride	20	900	13,000	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Notes:

- ** - indicates that analyte exceeds Groundwater Quality Standards (GQS).
- UUSCO - Unrestricted Use Soil Cleanup Objectives, Table 375-6.8(a), 6 NYCRR 375, NYSDEC 2006
- RRSCO - Restricted Residential Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- CSCO - Commercial Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- NQ – No qualification needed.
- All units are in ug/kg or ppb
- **Bold text indicates UUSCO exceedances**
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- Blue shaded cell indicates Protection to GW exceedances
- ND – Not Detected
- NS (Blank) – No Standard

Table 4

Soil Analytical Results and Data Usability Summary
Semi-Volatile Organic Compounds
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (µg/kg)		SB-1 (6'-8') 06/01/2022 (µg/kg)		SB-1 (14'-16') 06/01/2022 (µg/kg)		SB-2 (0'-2') 06/01/2022 (µg/kg)		SB-2 (6'-8') 06/01/2022 (µg/kg)		SB-2 (14'-16') 06/01/2022 (µg/kg)		SB-3 (0'-2') 06/01/2022 (µg/kg)		SB-3 (6'-8') 06/01/2022 (µg/kg)		SB-3 (14'-16') 06/01/2022 (µg/kg)		SB-4 (0'-2') 06/01/2022 (µg/kg)		SB-4 (6'-8') 06/01/2022 (µg/kg)	
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	1,100	100,000	500,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Diphenylhydrazine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	2,400	49,000	280,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	1,800	13,000	130,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,2'-Oxybis(1-Chloropropane)	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chloronaphthalene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol (o-cresol)	330	100,000	500,000	330	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3&4-Methylphenol (m&p-cresol)	NS	NS	NS	330	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthene	20,000	100,000	500,000	98,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	100,000	100,000	500,000	107,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acetophenone	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benz(a)anthracene	1,000	1,000	5,600	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		210		ND	
Benzidine	NS	NS	NS	NS	ND	390 UJ	ND	380 UJ	ND	360 UJ	ND	370 UJ	ND	350 UJ	ND	350 UJ	ND	350 UJ	ND	350 UJ	ND	390 UJ	ND	380 UJ	ND	350 UJ
Benzo(a)pyrene	1,000	1,000	1,000	22,000	ND		ND		ND		130		ND		ND		ND		ND		ND		280		ND	
Benzo(b)fluoranthene	1,000	1,000	5,600	1,700	ND		ND		ND		150		ND		ND		ND		ND		ND		350		ND	

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (µg/kg)		SB-1 (6'-8') 06/01/2022 (µg/kg)		SB-1 (14'-16') 06/01/2022 (µg/kg)		SB-2 (0'-2') 06/01/2022 (µg/kg)		SB-2 (6'-8') 06/01/2022 (µg/kg)		SB-2 (14'-16') 06/01/2022 (µg/kg)		SB-3 (0'-2') 06/01/2022 (µg/kg)		SB-3 (6'-8') 06/01/2022 (µg/kg)		SB-3 (14'-16') 06/01/2022 (µg/kg)		SB-4 (0'-2') 06/01/2022 (µg/kg)		SB-4 (6'-8') 06/01/2022 (µg/kg)	
Benzo(ghi)perylene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		220		ND	
Benzo(k)fluoranthene	800	3,900	56,000	1,700	ND		ND		ND		ND		ND		ND		ND		ND		ND		250		ND	
Benzoic acid	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzyl butyl phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Carbazole	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	1,000	3,900	56,000	1,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		300		ND	
Dibenz(a,h)anthracene	330	330	560	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	7,000	59,000	350,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Di-n-butylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Di-n-octylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		310		ND	
Fluorene	30,000	100,000	500,000	386,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	330	1,200	6,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	NS	NS	NS	NS	ND	280 UJ	ND	270 UJ	ND	250 UJ	ND	260 UJ	ND	250 UJ	ND	250 UJ	ND	240 UJ	ND	250 UJ	ND	280 UJ	ND	270 UJ	ND	250 UJ
Hexachloroethane	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	500	500	5,600	8,200	ND		ND		ND		120		ND		ND		ND		ND		ND		270		ND	
Isophorone	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	12,000	100,000	500,000	12,000	8,400		ND		9,300		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodimethylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodi-n-propylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodiphenylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachloronitrobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	800	6,700	6,700	800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Phenanthrene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Phenol	330	100,000	500,000	330	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		300		ND	
Pyridine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Totals					-		-		-		-		-		-		-		-		-		-		-	

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (µg/kg))		SB-5 (0'-2') 06/01/2022 (µg/kg)		SB-5 (6'-8') 06/01/2022 (µg/kg)		SB-5 (14'-16') 06/01/2022 (µg/kg)		SB-6 (0'-2') 06/01/2022 (µg/kg)		SB-6 (6'-8') 06/01/2022 (µg/kg)		SB-6 (14'-16') 06/01/2022 (µg/kg)		SB-7 (0'-2') 06/01/2022 (µg/kg)		SB-7 (6'-8') 06/01/2022 (µg/kg)		SB-7 (14'-16') 06/01/2022 (µg/kg)		SB-8 (0'-2') 06/01/2022 (µg/kg)	
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	1,100	100,000	500,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Diphenylhydrazine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	2,400	49,000	280,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	1,800	13,000	130,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,2'-Oxybis(1-Chloropropane)	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chloronaphthalene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		120		ND		ND		ND	
2-Methylphenol (o-cresol)	330	100,000	500,000	330	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3&4-Methylphenol (m&p-cresol)	NS	NS	NS	330	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthene	20,000	100,000	500,000	98,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	100,000	100,000	500,000	107,000	ND		ND		ND		ND		ND		ND		ND		130		ND		ND		ND	
Acetophenone	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benz(a)anthracene	1,000	1,000	5,600	1,000	ND		230		150		ND		ND		ND		ND		280		ND		ND		ND	
Benzidine	NS	NS	NS	NS	ND	350 UJ	ND	380 UJ	ND	340 UJ	ND		ND		ND		ND		ND		ND		ND		ND	
Benzo(a)pyrene	1,000	1,000	1,000	22,000	ND		270		110		ND		ND		ND		ND		370		ND		ND		ND	
Benzo(b)fluoranthene	1,000	1,000	5,600	1,700	ND		300		ND		ND		ND		ND		ND		410		ND		ND		ND	
Benzo(ghi)perylene	100,000	100,000	500,000	1,000,000	ND		240		ND		ND		ND		ND		ND		280		ND		ND		ND	
Benzo(k)fluoranthene	800	3,900	56,000	1,700	ND		250		ND		ND		ND		ND		ND		370		ND		ND		ND	
Benzoic acid	NS	NS	NS	NS	ND		ND		ND		ND	1700 UJ	ND	1900 UJ	ND	1700 UJ	ND	1800 UJ	ND	1900 UJ	ND	1700 UJ	ND	1700 UJ	ND	1800 UJ
Benzyl butyl phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (µg/kg))		SB-5 (0'-2') 06/01/2022 (µg/kg)		SB-5 (6'-8') 06/01/2022 (µg/kg)		SB-5 (14'-16') 06/01/2022 (µg/kg)		SB-6 (0'-2') 06/01/2022 (µg/kg)		SB-6 (6'-8') 06/01/2022 (µg/kg)		SB-6 (14'-16') 06/01/2022 (µg/kg)		SB-7 (0'-2') 06/01/2022 (µg/kg)		SB-7 (6'-8') 06/01/2022 (µg/kg)		SB-7 (14'-16') 06/01/2022 (µg/kg)		SB-8 (0'-2') 06/01/2022 (µg/kg)	
Bis(2-chloroethoxy)methane	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Carbazole	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	1,000	3,900	56,000	1,000	ND		ND		140		ND		ND		ND		ND		380		ND		ND		ND	
Dibenz(a,h)anthracene	330	330	560	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	7,000	59,000	350,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Dimethylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Di-n-butylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Di-n-octylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	100,000	100,000	500,000	1,000,000	ND		330		370		ND		140		ND		ND		410		ND		ND		ND	
Fluorene	30,000	100,000	500,000	386,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	330	1,200	6,000	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	NS	NS	NS	NS	ND	250 UJ	ND	270 UJ	ND	240 UJ	ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	500	500	5,600	8,200	ND		300		ND		ND		ND		ND		ND		300		ND		ND		ND	
Isophorone	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	12,000	100,000	500,000	12,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodimethylamine	NS	NS	NS	NS	ND		ND		ND		ND	240 UJ	ND	270 UJ	ND	240 UJ	ND	250 UJ	ND	270 UJ	ND	240 UJ	ND	240 UJ	ND	260 UJ
N-Nitrosodi-n-propylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodiphenylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachloronitrobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	800	6,700	6,700	800	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Phenanthrene	100,000	100,000	500,000	1,000,000	ND		ND		220		ND		ND		ND		ND		140		ND		ND		ND	
Phenol	330	100,000	500,000	330	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	100,000	100,000	500,000	1,000,000	ND		320		280		ND		130		ND		ND		400		ND		ND		ND	
Pyridine	NS	NS	NS	NS	ND	240 UJ	ND	270 UJ	ND	240 UJ	ND	250 UJ	ND	270 UJ	ND	240 UJ	ND	250 UJ	ND	270 UJ	ND	240 UJ	ND	240 UJ	ND	260 UJ
Totals					-		-		-		-		-		-		-		-		-		-		-	

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (µg/kg)		SB-8 (14'-16') 06/01/2022 (µg/kg)		SB-9 (0'-2') 06/01/2022 (µg/kg)		SB-9 (6'-8') 06/01/2022 (µg/kg)		SB-9 (14'-16') 06/01/2022 (µg/kg)		SB-10 (0'-2') 06/01/2022 (µg/kg)		SB-10 (6'-8') 06/01/2022 (µg/kg)		SB-10 (14'-16') 06/01/2022 (µg/kg)	
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	1,100	100,000	500,000	NS	ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Diphenylhydrazine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	2,400	49,000	280,000	NS	ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	1,800	13,000	130,000	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,2'-Oxybis(1-Chloropropane)	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2-Chloronaphthalene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol (o-cresol)	330	100,000	500,000	330	ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
3&4-Methylphenol (m & p-cresol)	NS	NS	NS	330	ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthene	20,000	100,000	500,000	98,000	ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthylene	100,000	100,000	500,000	107,000	ND		ND		ND		ND		ND		200		ND		ND	
Acetophenone	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Aniline	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND	
Benz(a)anthracene	1,000	1,000	5,600	1,000	ND		ND		ND		ND		ND		380		ND		ND	
Benzidine	NS	NS	NS	NS	ND		ND	350 UJ	ND		ND		ND		ND		ND		ND	
Benzo(a)pyrene	1,000	1,000	1,000	22,000	ND		ND		ND		ND		ND		530		ND		ND	
Benzo(b)fluoranthene	1,000	1,000	5,600	1,700	ND		ND		ND		ND		ND		690		ND		ND	
Benzo(g, h, i)perylene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		390		ND		ND	
Benzo(k)fluoranthene	800	3,900	56,000	1,700	ND		ND		ND		ND		ND		480		ND		ND	
Benzoic acid	NS	NS	NS	NS	ND	1700 UJ	ND	1800 UJ	ND	2000 UJ	ND	1800 UJ	ND	1700 UJ	ND	1900 UJ	ND	1700 UJ	ND	1700 UJ
Benzyl butyl phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (µg/kg)		SB-8 (14'-16') 06/01/2022 (µg/kg)		SB-9 (0'-2') 06/01/2022 (µg/kg)		SB-9 (6'-8') 06/01/2022 (µg/kg)		SB-9 (14'-16') 06/01/2022 (µg/kg)		SB-10 (0'-2') 06/01/2022 (µg/kg)		SB-10 (6'-8') 06/01/2022 (µg/kg)		SB-10 (14'-16') 06/01/2022 (µg/kg)	
Carbazole	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Chrysene	1,000	3,900	56,000	1,000	ND		ND		ND		ND		ND		470		ND		ND	
Dibenzo(a, h)anthracene	330	330	560	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND	
Dibenzofuran	7,000	59,000	350,000	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Diethyl phthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Dimethylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Di-n-butylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Di-n-octylphthalate	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Fluoranthene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		570		ND		ND	
Fluorene	30,000	100,000	500,000	386,000	ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	330	1,200	6,000	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Hexachloroethane	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Indeno(1,2,3-cd)pyrene	500	500	5,600	8,200	ND		ND		ND		ND		ND		390		ND		ND	
Isophorone	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Naphthalene	12,000	100,000	500,000	12,000	ND		ND		ND		ND		ND		ND		ND		ND	
Nitrobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodimethylamine	NS	NS	NS	NS	ND	240 UJ	ND		ND	270 UJ	ND	250 UJ	ND	240 UJ	ND	270 UJ	ND	240 UJ	ND	240 UJ
N-Nitrosodi-n-propylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
N-Nitrosodiphenylamine	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Pentachloronitrobenzene	NS	NS	NS	NS	ND		ND		ND		ND		ND		ND		ND		ND	
Pentachlorophenol	800	6,700	6,700	800	ND		ND		ND		ND		ND		ND		ND		ND	
Phenanthrene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		ND		ND		ND	
Phenol	330	100,000	500,000	330	ND		ND		ND		ND		ND		ND		ND		ND	
Pyrene	100,000	100,000	500,000	1,000,000	ND		ND		ND		ND		ND		600		ND		ND	
Pyridine	NS	NS	NS	NS	ND	240 UJ	ND	250 UJ	ND	270 UJ	ND	250 UJ	ND	240 UJ	ND	270 UJ	ND	240 UJ	ND	240 UJ
Totals					-		-		-		-		-		-		-		-	

Notes:

- UUSCO - Unrestricted Use Soil Cleanup Objectives, Table 375-6.8(a), 6 NYCRR 375, NYSDEC 2006
- RRSCO - Restricted Residential Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- CSCO - Commercial Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- All units are in ug/kg or ppb
- **Bold text indicates UUSCO exceedances**
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- Blue shaded cell indicates Protection to GW exceedances
- ND – Not Detected
- NS (Blank) – No Standard

Table 5
Soil Analytical Results and Data Usability Summary
Pesticides
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (µg/kg)	SB-1 (6'-8') 06/01/2022 (µg/kg)	SB-1 (14'-16') 06/01/2022 (µg/kg)	SB-2 (0'-2') 06/01/2022 (µg/kg)	SB-2 (6'-8') 06/01/2022 (µg/kg)	SB-2 (14'-16') 06/01/2022 (µg/kg)	SB-3 (0'-2') 06/01/2022 (µg/kg)	SB-3 (6'-8') 06/01/2022 (µg/kg)	SB-3 (14'-16') 06/01/2022 (µg/kg)	SB-4 (0'-2') 06/01/2022 (µg/kg)	SB-4 (6'-8') 06/01/2022 (µg/kg)
4,4' -DDD	3.3	13,000	92,000	14,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDE	3.3	8,900	62,000	17,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDT	3.3	7,900	47,000	136,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
a-BHC	20	480	3,400	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
a-Chlordane	94	4,200	24,000	2,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alachlor	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	5	97	680	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
b-BHC	36	360	3,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
d-BHC	40	100,000	500,000	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	5	200	1,400	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2,400	24,000	200,000	102,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	24,000	200,000	102,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2,400	24,000	200,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	14	11,000	89,000	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
g-BHC	100	1,300	9,200	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
g-Chlordane	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	42	2,100	15,000	380	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	3.3	13,000	92,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- According to the DUSR, no qualification was needed for the above-mentioned samples.

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (µg/kg))	SB-5 (0'-2') 06/01/2022 (µg/kg)	SB-5 (6'-8') 06/01/2022 (µg/kg)	SB-5 (14'-16') 06/01/2022 (µg/kg)	SB-6 (0'-2') 06/01/2022 (µg/kg)	SB-6 (6'-8') 06/01/2022 (µg/kg)	SB-6 (14'-16') 06/01/2022 (µg/kg)	SB-7 (0'-2') 06/01/2022 (µg/kg)	SB-7 (6'-8') 06/01/2022 (µg/kg)	SB-7 (14'-16') 06/01/2022 (µg/kg)	SB-8 (0'-2') 06/01/2022 (µg/kg)
4,4' -DDD	3.3	13,000	92,000	14,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDE	3.3	8,900	62,000	17,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDT	3.3	7,900	47,000	136,000	ND	ND	ND	ND	**6.3**	ND	ND	ND	ND	ND	ND
a-BHC	20	480	3,400	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
a-Chlordane	94	4,200	24,000	2,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alachlor	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	5	97	680	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
b-BHC	36	360	3,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
d-BHC	40	100,000	500,000	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	5	200	1,400	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2,400	24,000	200,000	102,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	24,000	200,000	102,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2,400	24,000	200,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	14	11,000	89,000	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
g-BHC	100	1,300	9,200	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
g-Chlordane	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	42	2,100	15,000	380	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	3.3	13,000	92,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- According to the DUSR, no qualification was needed for the above-mentioned samples.

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (µg/kg)	SB-8 (14'-16') 06/01/2022 (µg/kg)	SB-9 (0'-2') 06/01/2022 (µg/kg)	SB-9 (6'-8') 06/01/2022 (µg/kg)	SB-9 (14'-16') 06/01/2022 (µg/kg)	SB-10 (0'-2') 06/01/2022 (µg/kg)	SB-10 (6'-8') 06/01/2022 (µg/kg)	SB-10 (14'-16') 06/01/2022 (µg/kg)
4,4' -DDD	3.3	13,000	92,000	14,000	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDE	3.3	8,900	62,000	17,000	ND	ND	ND	ND	ND	ND	ND	ND
4,4' -DDT	3.3	7,900	47,000	136,000	ND	ND	ND	ND	ND	**8.7**	ND	**6.3**
a-BHC	20	480	3,400	20	ND	ND	ND	ND	ND	ND	ND	ND
a-Chlordane	94	4,200	24,000	2,900	ND	ND	ND	ND	ND	ND	ND	ND
Alachlor	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	5	97	680	190	ND	ND	ND	ND	ND	ND	ND	ND
b-BHC	36	360	3,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
d-BHC	40	100,000	500,000	250	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	5	200	1,400	100	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	2,400	24,000	200,000	102,000	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	24,000	200,000	102,000	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	2,400	24,000	200,000	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	14	11,000	89,000	60	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
g-BHC	100	1,300	9,200	NS	ND	ND	ND	ND	ND	ND	ND	ND
g-Chlordane	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	42	2,100	15,000	380	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	3.3	13,000	92,000	NS	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- UUSCO - Unrestricted Use Soil Cleanup Objectives, Table 375-6.8(a), 6 NYCRR 375, NYSDEC 2006
- RRSCO - Restricted Residential Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- CSCO - Commercial Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- According to the DUSR, no qualification was needed for the above-mentioned samples.
- All units are in ug/kg or ppb
- Bold text indicates UUSCO exceedances
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- Blue shaded cell indicates Protection to GW exceedances.
- ND – Not Detected
- NS (Blank) – No Standard

Table 6
Soil Analytical Results and Data Usability Summary
Polychlorinated Biphenyls Compounds
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (µg/kg)	SB-1 (6'-8') 06/01/2022 (µg/kg)	SB-1 (14'-16') 06/01/2022 (µg/kg)	SB-2 (0'-2') 06/01/2022 (µg/kg)	SB-2 (6'-8') 06/01/2022 (µg/kg)	SB-2 (14'-16') 06/01/2022 (µg/kg)	SB-3 (0'-2') 06/01/2022 (µg/kg)	SB-3 (6'-8') 06/01/2022 (µg/kg)	SB-3 (14'-16') 06/01/2022 (µg/kg)	SB-4 (0'-2') 06/01/2022 (µg/kg)	SB-4 (6'-8') 06/01/2022 (µg/kg)
PCB-1016	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	100	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268	100	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
*Total Polychlorinated Biphenyls (PCBS)	100	NS	1000	3,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- According to the DUSR, no qualification was needed for the above-mentioned samples.

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (µg/kg)	SB-5 (0'-2') 06/01/2022 (µg/kg)	SB-5 (6'-8') 06/01/2022 (µg/kg)	SB-5 (14'-16') 06/01/2022 (µg/kg)	SB-6 (0'-2') 06/01/2022 (µg/kg)	SB-6 (6'-8') 06/01/2022 (µg/kg)	SB-6 (14'-16') 06/01/2022 (µg/kg)	SB-7 (0'-2') 06/01/2022 (µg/kg)	SB-7 (6'-8') 06/01/2022 (µg/kg)	SB-7 (14'-16') 06/01/2022 (µg/kg)	SB-8 (0'-2') 06/01/2022 (µg/kg)
PCB-1016	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	100	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268	100	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
*Total Polychlorinated Biphenyls (PCBS)	100	NS	1000	3,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- According to the DUSR, no qualification was needed for the above-mentioned samples.

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (µg/kg)	SB-8 (14'-16') 06/01/2022 (µg/kg)	SB-9 (0'-2') 06/01/2022 (µg/kg)	SB-9 (6'-8') 06/01/2022 (µg/kg)	SB-9 (14'-16') 06/01/2022 (µg/kg)	SB-10 (0'-2') 06/01/2022 (µg/kg)	SB-10 (6'-8') 06/01/2022 (µg/kg)	SB-10 (14'-16') 06/01/2022 (µg/kg)
PCB-1016	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	100	NS	1,000	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	100	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268	100	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND
*Total Polychlorinated Biphenyls (PCBS)	100	NS	1000	3,200	ND	ND	ND	ND	ND	ND	ND	ND

- According to the DUSR, no qualification was needed for the above-mentioned samples.

Notes:

- UUSCO - Unrestricted Use Soil Cleanup Objectives, Table 375-6.8(a), 6 NYCRR 375, NYSDEC 2006
- RRSCO - Restricted Residential Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- CSCO - Commercial Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- All units are in mg/kg or ppm
- **Bold text indicates UUSCO exceedances**
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- Blue shaded cell indicates Protection to GW exceedances
- ND – Not Detected
- NS (Blank) – No Standard

Table 7
Soil Analytical Results and Data Usability Summary
Target Analyte List – Metals
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (mg/kg)		SB-1 (6'-8') 06/01/2022 (mg/kg)		SB-1 (14'-16') 06/01/2022 (mg/kg)		SB-2 (0'-2') 06/01/2022 (mg/kg)		SB-2 (6'-8') 06/01/2022 (mg/kg)		SB-2 (14'-16') 06/01/2022 (mg/kg)		SB-3 (0'-2') 06/01/2022 (mg/kg)		SB-3 (6'-8') 06/01/2022 (mg/kg)		SB-3 (14'-16') 06/01/2022 (mg/kg)		SB-4 (0'-2') 06/01/2022 (mg/kg)		SB-4 (6'-8') 06/01/2022 (mg/kg)	
Aluminum	NS	NS	NS	NS	15,400	NQ	13,000	NQ	5,530	NQ	11,300	NQ	8,280	NQ	5,280	NQ	5, 640	NQ	5,680	NQ	15,300	NQ	13,000	NQ	5,730	NQ
Antimony	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Arsenic	13	16	16	16	5.95	NQ	4.28	NQ	1.82	NQ	5.12	NQ	1.65	NQ	1.69	NQ	1.73	NQ	2.52	NQ	4.67	NQ	8.78	NQ	2.15	NQ
Barium	350	400	400	820	56.2	NQ	38.2	NQ	39.2	NQ	47.8	NQ	28.3	NQ	28.1	NQ	33.0	NQ	19.2	NQ	73.8	NQ	76.6	NQ	26.6	NQ
Beryllium	7.2	72	590	47	0.67	NQ	0.53	NQ	0.39	NQ	0.53	NQ	0.47	NQ	0.44	NQ	0.36	NQ	0.41	NQ	0.78	NQ	0.63	NQ	0.44	NQ
Cadmium	2.5	4.3	9.3	7.5	1.65	NQ	1.47	NQ	0.94	NQ	1.29	NQ	1.00	NQ	0.95	NQ	0.93	NQ	0.86	NQ	1.54	NQ	1.59	NQ	1.11	NQ
Calcium	NS	NS	NS	NS	2,500	NQ	916	NQ	1,590	1590 J	1,040	NQ	589	NQ	1,050	NQ	6,850	NQ	6.72	NQ	1,610	NQ	7,090	NQ	841	NQ
Chromium	30	NS	NS	19	24.2	NQ	23.6	NQ	**34.7**	34.7 J	18.0	NQ	21.3	NQ	**31.8**	0.42 UJ	**39.1**	NQ	19.2	NQ	21.1	NQ	21.2	NQ	**40.7**	NQ
Cobalt	NS	NS	NS	NS	11.0	NQ	9.93	NQ	15.8	NQ	8.21	NQ	9.24	NQ	12.3	NQ	10.5	NQ	8.81	NQ	8.49	NQ	8.81	NQ	11.7	NQ
Copper	50	270	270	1,720	17.7	NQ	11.8	NQ	20.0	NQ	14.0	NQ	12.1	NQ	16.6	NQ	19.0	NQ	14.7	NQ	15.4	NQ	**51.9**	NQ	18.3	NQ
Iron**	NS	NS	NS	NS	22,100	NQ	20,500	NQ	13,600	NQ	16,500	NQ	12,600	NQ	13,600	NQ	12,500	NQ	11,400	NQ	18,100	NQ	18,600	NQ	15,800	NQ
Lead	63	400	1,000	450	19.9	NQ	9.5	NQ	12.1	NQ	20.6	NQ	6.4	NQ	7.5	NQ	11.8	NQ	5.5	NQ	24.8	NQ	**67.5**	NQ	4.5	NQ
Magnesium**	NS	NS	NS	NS	3,860	NQ	2,340	NQ	4,720	NQ	3,120	NQ	2,680	NQ	3,890	NQ	5,720	NQ	2,430	NQ	2,560	NQ	5,190	NQ	3,570	NQ
Manganese**	1,600	2,000	10,000	2,000	331	NQ	298	NQ	364	NQ	297	NQ	185	NQ	166	NQ	315	NQ	272	NQ	459	NQ	261	NQ	296	NQ
Mercury	0.18	0.81	2.8	0.73	0.03	0.03 J+	ND	NQ	ND	NQ	0.04	0.04 J+	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.17	0.17 J+	**0.52**	NQ	ND	NQ
Nickel	30	310	310	130	**35.5**	NQ	21.7	NQ	**148**	NQ	**30.9**	NQ	**39.6**	NQ	**104**	NQ	**64.9**	NQ	**66.5**	NQ	24.5	NQ	28.1	NQ	**73.1**	NQ
Potassium	NS	NS	NS	NS	1,160	NQ	740	NQ	976	NQ	993	NQ	781	NQ	939	NQ	1,100	NQ	668	NQ	822	NQ	933	NQ	556	NQ
Selenium	3.9	180	1,500	4	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Silver	2	180	1,500	8.3	ND	NQ	ND	NQ	ND	NQ	0.86	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.56	NQ	ND	NQ	ND	NQ
Sodium**	NS	NS	NS	NS	84	NQ	84	NQ	183	183 J+	110	NQ	120	NQ	152	NQ	64.9	NQ	87	NQ	169	NQ	184	NQ	110	NQ
Thallium	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Vanadium	NS	NS	NS	NS	33.8	NQ	29.7	NQ	19.4	NQ	25.8	NQ	20.8	NQ	23.7	NQ	21.1	NQ	17.0	NQ	30.7	NQ	33.2	NQ	23.7	NQ
Zinc	109	10,000	10,000	2,480	39.5	NQ	31.8	NQ	36.2	NQ	38.5	NQ	27.9	NQ	37.1	NQ	37.0	NQ	23.0	NQ	49.9	NQ	80.5	NQ	25.9	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (mg/kg)		SB-5 (0'-2') 06/01/2022 (mg/kg)		SB-5 (6'-8') 06/01/2022 (mg/kg)		SB-5 (14'-16') 06/01/2022 (mg/kg)		SB-6 (0'-2') 06/01/2022 (mg/kg)		SB-6 (6'-8') 06/01/2022 (mg/kg)		SB-6 (14'-16') 06/01/2022 (mg/kg)		SB-7 (0'-2') 06/01/2022 (mg/kg)		SB-7 (6'-8') 06/01/2022 (mg/kg)		SB-7 (14'-16') 06/01/2022 (mg/kg)		SB-8 (0'-2') 06/01/2022 (mg/kg)	
Aluminum	NS	NS	NS	NS	6,200	NQ	12,200	NQ	5,440	NQ	5,050	NQ	5,700	NQ	6,210	NQ	5,290	NQ	14,100	NQ	4,930	NQ	3,180	NQ	14,300	NQ
Antimony	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Arsenic	13	16	16	16	1.88	NQ	7.18	NQ	1.48	NQ	1.52	NQ	2.89	NQ	1.45	NQ	2.72	NQ	8.21	NQ	1.49	NQ	1.37	NQ	5.38	NQ
Barium	350	400	400	820	36.7	NQ	248	NQ	22.9	NQ	51	NQ	82.8	NQ	25.6	NQ	33.8	NQ	96.9	NQ	21.4	NQ	23.2	NQ	122	NQ
Beryllium	7.2	72	590	47	0.42	NQ	0.62	NQ	0.4	NQ	0.32	NQ	0.36	NQ	0.43	NQ	0.53	NQ	0.7	NQ	0.34	NQ	0.25	NQ	0.96	NQ
Cadmium	2.5	4.3	9.3	7.5	1.11	NQ	2.39	NQ	0.75	NQ	0.77	NQ	1.56	NQ	0.88	NQ	1.05	NQ	**2.72**	NQ	0.93	NQ	0.65	NQ	2.24	NQ
Calcium	NS	NS	NS	NS	998	NQ	12,800	NQ	2,190	NQ	1,350	NQ	6,050	NQ	797	NQ	2,340	NQ	7,800	NQ	729	NQ	1,180	NQ	13,800	NQ
Chromium	30	NS	NS	19	**30.4**	NQ	27.3	NQ	16.7	NQ	15.6	NQ	19.9	NQ	18	NQ	19.8	NQ	26.5	NQ	18.3	NQ	10.6	NQ	24.6	NQ
Cobalt	NS	NS	NS	NS	14	NQ	8.82	NQ	7.87	NQ	8.6	NQ	7.99	NQ	9.6	NQ	11.6	NQ	10.7	NQ	11	NQ	6.68	NQ	9.47	NQ
Copper	50	270	270	1,720	15.3	NQ	**54.8**	NQ	12.6	NQ	25.4	NQ	20.6	NQ	15.1	NQ	16.4	NQ	35.5	NQ	15.4	NQ	9	NQ	**70.9**	NQ
Iron**	NS	NS	NS	NS	15,800	NQ	16,700	NQ	9,780	NQ	11,100	NQ	10,800	NQ	11,500	NQ	14,300	NQ	22,600	NQ	13,100	NQ	9,580	NQ	20,500	NQ
Lead	63	400	1,000	450	6.4	NQ	**309**	NQ	3.4	NQ	7.9	NQ	**181**	NQ	4.1	NQ	6.9	NQ	**152**	NQ	11	NQ	3.8	NQ	**200**	NQ
Magnesium**	NS	NS	NS	NS	3,990	NQ	6,600	NQ	2,450	NQ	3,120	NQ	4,810	NQ	3,010	NQ	4,650	NQ	3,970	NQ	2,460	NQ	3,860	NQ	7,280	NQ
Manganese**	1,600	2,000	10,000	2,000	394	NQ	260	NQ	219	NQ	300	NQ	235	NQ	278	NQ	330	NQ	337	NQ	286	NQ	247	NQ	511	NQ
Mercury	0.18	0.81	2.8	0.73	ND	NQ	0.1	0.10 J+	ND	NQ	ND	NQ	0.12	0.12 J+	ND	NQ	ND	NQ	0.11	0.11 J+	ND	NQ	ND	NQ	**0.28**	0.28 J+
Nickel	30	310	310	130	**95.7**	NQ	**37.9**	NQ	**60.3**	NQ	**70**	NQ	**35.4**	NQ	**57.3**	NQ	**109**	NQ	**36.7**	NQ	**59.5**	NQ	**59.3**	NQ	**76.9**	NQ
Potassium	NS	NS	NS	NS	833	NQ	917	NQ	888	NQ	1,050	NQ	547	NQ	720	NQ	932	NQ	953	NQ	668	NQ	625	NQ	2,130	NQ
Selenium	3.9	180	1,500	4	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Silver	2	180	1,500	8.3	ND	NQ	ND	NQ	0.41	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Sodium**	NS	NS	NS	NS	145	NQ	294	NQ	93	NQ	170	NQ	73	NQ	75	NQ	140	140 J	235	NQ	91	NQ	129	NQ	465	NQ
Thallium	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Vanadium	NS	NS	NS	NS	23.6	NQ	34.8	NQ	15	NQ	18	NQ	23.2	NQ	18.3	NQ	19.6	NQ	35.4	NQ	24.5	NQ	12.2	NQ	41.5	NQ
Zinc	109	10,000	10,000	2,480	43.1	NQ	**309**	NQ	24.3	NQ	26.5	NQ	**198**	NQ	30.4	NQ	43	NQ	**272**	NQ	25.1	NQ	17.8	NQ	**202**	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (mg/kg)		SB-8 (14'-16') 06/01/2022 (mg/kg)		SB-9 (0'-2') 06/01/2022 (mg/kg)		SB-9 (6'-8') 06/01/2022 (mg/kg)		SB-9 (14'-16') 06/01/2022 (mg/kg)		SB-10 (0'-2') 06/01/2022 (mg/kg)		SB-10 (6'-8') 06/01/2022 (mg/kg)		SB-10 (14'-16') 06/01/2022 (mg/kg)	
Aluminum	NS	NS	NS	NS	4,660	NQ	2,960	NQ	15,700	NQ	5,450	NQ	5,970	NQ	11,100	NQ	6,030	NQ	4,930	NQ
Antimony	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Arsenic	13	16	16	16	1.24	NQ	1.17	NQ	6.85	NQ	1.91	NQ	1.5	NQ	6.24	NQ	1.95	NQ	2.91	NQ
Barium	350	400	400	820	21.4	NQ	31	NQ	80.3	NQ	30.3	NQ	31.1	NQ	116	NQ	30.3	NQ	85.6	NQ
Beryllium	7.2	72	590	47	0.3	NQ	0.24	NQ	0.75	NQ	0.37	NQ	1.65	NQ	0.59	NQ	0.42	NQ	0.33	NQ
Cadmium	2.5	4.3	9.3	7.5	0.68	NQ	0.58	NQ	1.5	NQ	0.94	NQ	1.58	NQ	2.17	NQ	0.78	NQ	1.53	NQ
Calcium	NS	NS	NS	NS	483	NQ	734	NQ	1,970	NQ	841	NQ	1,310	NQ	6,710	NQ	1,280	NQ	2,600	NQ
Chromium	30	NS	NS	19	13.5	NQ	7.93	7.93 J	22.8	NQ	23.6	NQ	23	NQ	22.6	NQ	15.5	NQ	27.7	NQ
Cobalt	NS	NS	NS	NS	6.41	NQ	5.16	NQ	10.3	NQ	11.2	NQ	9.59	NQ	8.27	NQ	8.3	NQ	9.37	NQ
Copper	50	270	270	1,720	10.1	NQ	8.2	NQ	23.6	NQ	17	NQ	9.3	NQ	44.5	NQ	12.3	NQ	26.8	NQ
Iron**	NS	NS	NS	NS	10,600	NQ	7,690	NQ	20,500	NQ	15,700	NQ	14,800	NQ	17,200	NQ	12,000	NQ	16,400	NQ
Lead	63	400	1,000	450	3.6	NQ	2.8	NQ	37.9	NQ	5.6	NQ	4.7	NQ	**191**	NQ	5.1	NQ	**131**	NQ
Magnesium**	NS	NS	NS	NS	1,840	NQ	1,760	NQ	2,410	NQ	2,720	NQ	6,250	NQ	4,470	NQ	2,850	NQ	6,210	NQ
Manganese**	1,600	2,000	10,000	2,000	233	NQ	119	NQ	599	NQ	318	NQ	238	NQ	349	NQ	254	NQ	292	NQ
Mercury	0.18	0.81	2.8	0.73	ND	NQ	ND	NQ	0.09	0.09 J+	ND	NQ	ND	NQ	**0.27**	0.27 J+	ND	NQ	0.03	0.03 J+
Nickel	30	310	310	130	**42.7**	NQ	**47.5**	NQ	29.4	NQ	**88.4**	NQ	**101**	NQ	**32.9**	NQ	**56.5**	NQ	**85.2**	NQ
Potassium	NS	NS	NS	NS	561	NQ	516	516 J+	897	NQ	727	NQ	927	NQ	1,040	NQ	1,010	NQ	1,070	NQ
Selenium	3.9	180	1,500	4	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Silver	2	180	1,500	8.3	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Sodium**	NS	NS	NS	NS	142	NQ	128	128 J+	341	NQ	183	NQ	166	NQ	157	NQ	407	NQ	185	NQ
Thallium	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Vanadium	NS	NS	NS	NS	15.1	NQ	9.09	NQ	32.1	NQ	19.8	NQ	29	NQ	27.7	NQ	17.3	NQ	19	NQ
Zinc	109	10000	10000	2,480	18.8	NQ	18.9	NQ	47.5	NQ	29.2	NQ	36.9	NQ	**220**	NQ	22.4	NQ	**109**	NQ

Notes:

- ** - indicates that analyte exceeds Groundwater Quality Standards (GQS).
- UUSCO - Unrestricted Use Soil Cleanup Objectives, Table 375-6.8(a), 6 NYCRR 375, NYSDEC 2006
- RRSCO - Restricted Residential Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- CSCO - Commercial Soil Cleanup Objectives, Table 375-6.8(b), 6 NYCRR 375, NYSDEC 2006
- J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the samples.
- J+ - The result is an estimated quantity, but the result may be biased high.
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is appropriate and may be inaccurate or imprecise.
- NQ – No qualification needed.
- All units are in mg/kg or ppm
- Bold text indicates UUSCO exceedances
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- Blue shaded cell indicates Protection to GW exceedances
- ND – Not Detected
- NS (Blank) – No Standard

Table 8

Soil Analytical Results and Data Usability Summary
PFAS, NYSDEC Target List
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-1 (0'-2') 06/01/2022 (ng/g)		SB-1 (6'-8') 06/01/2022 (ng/g)		SB-1 (14'-16') 06/01/2022 (ng/g)		SB-2 (0'-2') 06/01/2022 (ng/g)		SB-2 (6'-8') 06/01/2022 (ng/g)		SB-2 (14'-16') 06/01/2022 (ng/g)		SB-3 (0'-2') 06/01/2022 (ng/g)		SB-3 (6'-8') 06/01/2022 (ng/g)		SB-3 (14'-16') 06/01/2022 (ng/g)		SB-4 (0'-2') 06/01/2022 (ng/g)		SB-4 (6'-8') 06/01/2022 (ng/g)	
1H,1H,2H,2H-Perfluorodecanesulfonic acid	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1H,1H,2H,2H-Perfluorooctanesulfonic acid	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
NEtFOSAA	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
NMeFOSAA	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-decanesulfonic acid (PFDS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-heptanesulfonic acid (PFHpS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-octanesulfonamide (FOSA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorodecanoic acid (PFDA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorododecanoic acid (PFDoA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoroheptanoic acid (PFHpA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorohexanesulfonic Acid (PFHxS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorohexanoic acid (PFHxA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-n-butanoic acid (PFBA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorononanoic acid (PFNA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorooctanesulfonic Acid (PFOS)**	0.88	44	440	1.0	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.672	NQ	**1.84**	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorooctanoic acid (PFOA)**	0.66	33	500	0.8	**0.789**	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.533	NQ	0.443	NQ	ND	NQ
Perfluoropentanoic acid (PFPeA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorotetradecanoic acid (PFTA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorotridecanoic acid (PFTrDA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoroundecanoic acid (PFUnA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-4 (14'-16') 06/01/2022 (ng/g)		SB-5 (0'-2') 06/01/2022 (ng/g)		SB-5 (6'-8') 06/01/2022 (ng/g)		SB-5 (14'-16') 06/01/2022 (ng/g)		SB-6 (0'-2') 06/01/2022 (ng/g)		SB-6 (6'-8') 06/01/2022 (ng/g)		SB-6 (14'-16') 06/01/2022 (ng/g)		SB-7 (0'-2') 06/01/2022 (ng/g)		SB-7 (6'-8') 06/01/2022 (ng/g)		SB-7 (14'-16') 06/01/2022 (ng/g)		SB-8 (0'-2') 06/01/2022 (ng/g)	
1H,1H,2H,2H-Perfluorodecanesulfonic acid	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1H,1H,2H,2H-Perfluorooctanesulfonic acid	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
NEtFOSAA	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
NMeFOSAA	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-decanesulfonic acid (PFDS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-heptanesulfonic acid (PFHpS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-octanesulfonamide (FOSA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorodecanoic acid (PFDA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorododecanoic acid (PFDoA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoroheptanoic acid (PFHpA)	NS	NS	NS	NS	ND	NQ	0.305	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorohexanesulfonic Acid (PFHxS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorohexanoic acid (PFHxA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-n-butanoic acid (PFBA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorononanoic acid (PFNA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorooctanesulfonic Acid (PFOS)**	0.88	44	440	1.0	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorooctanoic acid (PFOA)**	0.66	33	500	0.8	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.449	NQ
Perfluoropentanoic acid (PFPeA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorotetradecanoic acid (PFTA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorotridecanoic acid (PFTrDA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoroundecanoic acid (PFUnA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

COMPOUND	NYSDEC UUSCO	NYDEC RRSCO	NYSDEC CSCO	NYSDEC Protection to GW	SB-8 (6'-8') 06/01/2022 (ng/g)		SB-8 (14'-16') 06/01/2022 (ng/g)		SB-9 (0'-2') 06/01/2022 (ng/g)		SB-9 (6'-8') 06/01/2022 (ng/g)		SB-9 (14'-16') 06/01/2022 (ng/g)		SB-10 (0'-2') 06/01/2022 (ng/g)		SB-10 (6'-8') 06/01/2022 (ng/g)		SB-10 (14'-16') 06/01/2022 (ng/g)	
1H,1H,2H,2H-Perfluorodecanesulfonic acid	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1H,1H,2H,2H-Perfluorooctanesulfonic acid	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
NEtFOSAA	NS	NS	NS	NS	ND	NQ	ND	0.249 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.448	NQ
NMeFOSAA	NS	NS	NS	NS	ND	NQ	ND	0.249 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-decanesulfonic acid (PFDS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-heptanesulfonic acid (PFHpS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-1-octanesulfonamide (FOSA)	NS	NS	NS	NS	ND	NQ	ND	0.249 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorodecanoic acid (PFDA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorododecanoic acid (PFDoA)	NS	NS	NS	NS	ND	NQ	ND	0.249 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoroheptanoic acid (PFHpA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorohexanesulfonic Acid (PFHxS)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorohexanoic acid (PFHxA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoro-n-butanoic acid (PFBA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorononanoic acid (PFNA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorooctanesulfonic Acid (PFOS)**	0.88	44	440	1.0	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorooctanoic acid (PFOA)**	0.66	33	500	0.8	ND	NQ	ND	NQ	ND	NQ	ND	NQ	0.445	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoropentanoic acid (PFPeA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorotetradecanoic acid (PFTA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluorotridecanoic acid (PFTrDA)	NS	NS	NS	NS	ND	NQ	ND	0.249 UJ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Perfluoroundecanoic acid (PFUnA)	NS	NS	NS	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Notes:

- ** - indicates that the analyte exceeds Groundwater Quality Standards (GQS)
- UUSCO - Unrestricted Use Soil Cleanup Objectives
- RRSCO - Restricted Residential Soil Cleanup Objectives
- CSCO - Commercial Soil Cleanup Objectives
- UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is appropriate and may be inaccurate or imprecise.
- NQ – No qualification needed.
- All units are in ng/kg or ppt
- Bold text indicates UUSCO exceedances
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- Blue Shaded cell indicates Protection to GW exceedances
- ND – Not Detected
- NS (Blank) – No Standard

Table 9

Soil Analytical Results and Data Usability Summary
Semi Volatiles, 1,4, -Dioxane 8270 SIM
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC UUSCOs	NYSDEC RRSCOs	NYSDEC CSCOs	NYSDEC Protection To GW	SB-1 (0'-2') 06/01/2022 (ug/kg)		SB-1 (6'-8') 06/01/2022 (ug/kg)		SB-1 (14'-16') 06/01/2022 (ug/kg)		SB-2 (0'-2') 06/01/2022 (ug/kg)		SB-2 (6'-8') 06/01/2022 (ug/kg)		SB-2 (14'-16') 06/01/2022 (ug/kg)		SB-3 (0'-2') 06/01/2022 (ug/kg)		SB-3 (6'-8') 06/01/2022 (ug/kg)		SB-3 (14'-16') 06/01/2022 (ug/kg)		SB-4 (0'-2') 06/01/2022 (ug/kg)		SB-4 (6'-8') 06/01/2022 (ug/kg)	
1,4 - Dioxane	100	13,000	130,000	100	ND		ND		ND		ND		ND		ND		ND		ND	UJ	ND		ND		ND	

COMPOUND	NYSDEC UUSCOs	NYSDEC RRSCOs	NYSDEC CSCOs	NYSDEC Protection To GW	SB-4 (14'-16') 06/01/2022 (ug/kg)		SB-5 (0'-2') 06/01/2022 (ug/kg)		SB-5 (6'-8') 06/01/2022 (ug/kg)		SB-5 (14'-16') 06/01/2022 (ug/kg)		SB-6 (0'-2') 06/01/2022 (ug/kg)		SB-6 (6'-8') 06/01/2022 (ug/kg)		SB-6 (14'-16') 06/01/2022 (ug/kg)		SB-7 (0'-2') 06/01/2022 (ug/kg)		SB-7 (6'-8') 06/01/2022 (ug/kg)		SB-7 (14'-16') 06/01/2022 (ug/kg)		SB-8 (0'-2') 06/01/2022 (ug/kg)	
1,4 - Dioxane	100	13,000	130,000	100	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

COMPOUND	NYSDEC UUSCOs	NYSDEC RRSCOs	NYSDEC CSCOs	NYSDEC Protection To GW	SB-8 (6'-8') 06/01/2022 (ug/kg)		SB-8 (14'-16') 06/01/2022 (ug/kg)		SB-9 (0'-2') 06/01/2022 (ug/kg)		SB-9 (6'-8') 06/01/2022 (ug/kg)		SB-9 (14'-16') 06/01/2022 (ug/kg)		SB-10 (0'-2') 06/01/2022 (ug/kg)		SB-10 (6'-8') 06/01/2022 (ug/kg)		SB-10 (14'-16') 06/01/2022 (ug/kg)	
1,4 - Dioxane	100	13,000	130,000	100	ND		ND		ND		ND		ND		ND		ND		ND	

Notes:

- Bold text indicates UUSCO exceedances
- Shaded cell indicates RRSCO exceedances
- Underlined text indicates CSCO exceedances
- UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is appropriate and may be inaccurate or imprecise.
- Blue shaded cell indicates Protection to GW exceedances
- All units are in ug/kg or ppb
- Bold text indicates exceedances
- ND – Not Detected
- NS (Blank) – No Standard

Table 10

Groundwater Analytical Results and Data Usability Summary
Volatile Organic Compounds
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC GQS (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
1,1,1,2-Tetrachloroethane	5	ND		ND		ND		ND		ND	NQ	ND	
1,1,1-Trichloroethane	5	ND		ND		ND		ND		ND	NQ	ND	
1,1,2,2-Tetrachloroethane	5	ND		ND		ND		ND		ND	NQ	ND	
1,1,2-Trichloroethane	1	ND		ND		ND		ND		ND	NQ	ND	
1,1-Dichloroethane	5	ND		ND		ND		ND		ND	NQ	ND	
1,1-Dichloroethene	5	ND		ND		ND		ND		ND	NQ	ND	
1,1-Dichloropropene	5	ND		ND		ND		ND		ND	NQ	ND	
1,2,3-Trichlorobenzene	NS	ND		ND		ND		ND		ND	NQ	ND	
1,2,3-Trichloropropane	0.04	ND		ND		ND		ND		ND	NQ	ND	
1,2,4-Trichlorobenzene	NS	ND		ND		ND		ND		ND	NQ	ND	
1,2,4-Trimethylbenzene	5	ND		ND		ND		ND	0.55 J	ND	NQ	ND	
1,2-Dibromo-3-chloropropane	0.04	ND		ND		ND		ND		ND	NQ	ND	
1,2-Dibromoethane	0.0006	ND		ND		ND		ND		ND	NQ	ND	
1,2-Dichlorobenzene	NS	ND		ND		ND		ND		ND	NQ	ND	
1,2-Dichloroethane	0.6	ND		ND		ND		ND		ND	NQ	ND	
1,2-Dichloropropane	1	ND		ND		ND		ND		ND	NQ	ND	
1,3,5-Trimethylbenzene	5	ND		ND		ND		ND		ND	NQ	ND	
1,3-Dichlorobenzene	3	ND		ND		ND		ND		ND	NQ	ND	
1,3-Dichloropropane	5	ND		ND		ND		ND		ND	NQ	ND	
1,4-Dichlorobenzene	NS	ND		ND		ND		ND		ND	NQ	ND	
2,2-Dichloropropane	5	ND		ND		ND		ND		ND	NQ	ND	
2-Chlorotoluene	5	ND		ND		ND		ND		ND	NQ	ND	
2-Hexanone	50	ND		ND		ND		ND		ND	NQ	ND	
2-Isopropyltoluene	5	**8.6**		2.2		**7.3**		**8**		2.7	NQ	4.9	
4-Chlorotoluene	5	ND		ND		ND		ND		ND	NQ	ND	
4-Methyl-2-pentanone	NS	ND		ND		ND		ND		ND	NQ	ND	
Acetone	50	ND		30		ND		ND		ND	NQ	ND	
Acrylonitrile	5	ND		ND		ND		ND		ND	NQ	ND	
Benzene	1	ND		0.69		ND		ND		ND	NQ	**2.1**	
Bromobenzene	5	ND		ND		ND		ND		ND	NQ	ND	
Bromochloromethane	5	ND		ND		ND		ND		ND	NQ	ND	
Bromodichloromethane	50	ND		ND		ND		ND		ND	NQ	ND	
Bromoform	50	ND		ND		ND		ND		ND	NQ	ND	
Bromomethane	5	ND		ND	1.0 UJ	ND		ND		ND	NQ	ND	
Carbon Disulfide	NS	ND		ND		ND		ND		ND	NQ	ND	
Carbon tetrachloride	5	ND		ND		ND		ND		ND	NQ	ND	
Chlorobenzene	5	0.54		ND		ND		ND		ND	NQ	ND	
Chloroethane	5	ND		ND		ND		ND		ND	NQ	ND	

COMPOUND	NYSDEC GQS (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
Chloroform	7	ND		ND		ND		ND		ND	NQ	ND	
Chloromethane	5	ND		ND		ND		ND		ND	NQ	ND	
cis-1,2-Dichloroethene	5	ND		ND		ND		ND		ND	NQ	ND	
cis-1,3-Dichloropropene	0.4	ND		ND		ND		ND		ND	NQ	ND	
Dibromochloromethane	50	ND		ND		ND		ND		ND	NQ	ND	
Dibromomethane	5	ND		ND		ND		ND		ND	NQ	ND	
Dichlorodifluoromethane	5	ND		ND	1.0 UJ	ND		ND		ND	NQ	ND	
Ethylbenzene	5	0.68		ND		ND		ND	2.0 UJ	ND	NQ	ND	
Hexachlorobutadiene	0.5	ND		ND		ND		ND		ND	NQ	ND	
Isopropylbenzene	5	**50**		3.7		**100**		**40**	40 J	<1.0	NQ	**27**	
M & p-Xylene	NS	ND		ND		ND		ND	1.4 J	ND	NQ	ND	
Methyl ethyl ketone	50	ND	10 UJ	ND	5.0 UJ	ND	10 UJ	ND	10 UJ	ND	NQ	ND	5.0 UJ
Methyl t-butyl ether (MTBE)	NS	1.8		0.46		ND		ND		ND	NQ	0.51	
Methylene chloride	5	ND		ND		ND		ND		ND	NQ	ND	
Naphthalene	10	ND		ND		ND		ND		ND	NQ	ND	
n-Butylbenzene	5	**6.4**		2.7		**12**		**14**		<1.0	NQ	2.5	
n-Propylbenzene	5	**83**		4.6		**140**		**100**		<1.0	NQ	**26**	
o-Xylene	5	ND		ND		ND		ND		ND	NQ	ND	
p-Isopropyltoluene	5	ND		ND		ND		ND		ND	NQ	ND	
sec-Butylbenzene	5	**17**		2.4		**11**		**15**		<1.0	NQ	4.3	
Styrene	5	ND		ND		ND		ND		ND	NQ	ND	
tert-Butylbenzene	5	2.5		0.85		3.1		3.1		1.1	NQ	1.4	
Tetrachloroethene	5	ND		ND		ND		ND		1	NQ	0.46	
Tetrahydrofuran (THF)	50	ND	5.0 UJ	ND	2.5 UJ	ND	5.0 UJ	ND	5.0 UJ	ND	NQ	ND	5.0 UJ
Toluene	5	ND		ND		0.61		ND		ND	NQ	0.31	
Total Xylenes	5	ND		ND		ND		ND		ND	NQ	ND	
trans-1,2-Dichloroethene	5	ND		ND		ND		ND		ND	NQ	ND	
trans-1,3-Dichloropropene	0.4	ND		ND		ND		ND		ND	NQ	ND	
trans-1,4-dichloro-2-butene	5	ND		ND		ND		ND		ND	NQ	ND	
Trichloroethene	5	ND		ND		ND		ND		1	NQ	0.92	
Trichlorofluoromethane	5	ND		ND		ND		ND		ND	NQ	ND	
Trichlorotrifluoroethane	5	ND		ND		ND		ND		ND	NQ	ND	
Vinyl chloride	2	ND		ND		ND		ND		ND	NQ	ND	

Notes:

- NYS Groundwater Quality Standards
- All units are in ug/L or ppb
- Bold text indicates NYSDEC GQS exceedances.
- ND – Not Detected
- NQ – No Qualifications needed
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- NS (Blank) – No Standard

Table 11

Groundwater Analytical Results and Data Usability Summary
Semi-Volatile Organic Compounds
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC GQS (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
1,1'-Biphenyl	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4,5-Tetrachlorobenzene	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2,4-Trichlorobenzene	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Dichlorobenzene	3	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,2-Diphenylhydrazine (as Azobenzene)	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,3-Dichlorobenzene	3	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
1,4-Dichlorobenzene	3	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,3,4,6-Tetrachlorophenol	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,4,5-Trichlorophenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,4,6-Trichlorophenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,4-Dichlorophenol	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,4-Dimethylphenol	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,4-Dinitrophenol	10	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,4-Dinitrotoluene	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2,6-Dinitrotoluene	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Chloronaphthalene	10	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Chlorophenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Methylnaphthalene	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Methylphenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
3- & 4- Methylphenols	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Nitroaniline	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
2-Nitrophenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
3,3'-Dichlorobenzidine	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
3-Nitroaniline	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4,6-Dinitro-2-methylphenol	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Bromophenyl phenyl ether	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Chloro-3-methylphenol	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Chloroaniline	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Chlorophenyl phenyl ether	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Nitroaniline	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4-Nitrophenol	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Acenaphthene	20	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Acenaphthylene	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Acetophenone	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aniline	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Anthracene	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Atrazine	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzaldehyde	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzidine	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Benzo(a)anthracene	0.002	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzo(a)pyrene	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzo(b)fluoranthene	0.002	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzo (g, h, i) perylene	100,000	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzo(k)fluoranthene	0.002	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzoic acid	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzyl alcohol	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Benzyl butyl phthalate	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bis(2-chloroethoxy) methane	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bis(2-chloroethyl) ether	1.0	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bis(2-chloroisopropyl) ether	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Bis(2-ethylhexyl) phthalate	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Caprolactam	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Carbazole	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chrysene	0.002	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibenzo (a, h) anthracene	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dibenzofuran	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Diethyl phthalate	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dimethyl phthalate	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Di-n-butyl phthalate	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Di-n-octyl phthalate	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Fluoranthene	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Fluorene	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachlorobenzene	0.04	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachlorobutadiene	0.5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachlorocyclopentadiene	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Hexachloroethane	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Indeno(1,2,3-cd) pyrene	0.002	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Isophorone	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Naphthalene	10	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Nitrobenzene	0.4	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
N-Nitrosodimethylamine	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
N-nitroso-di-n-propylamine	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
N-Nitrosodiphenylamine	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Pentachlorophenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Phenanthrene	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Phenol	1	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Pyrene	50	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Notes:

- NYS Groundwater Quality Standards
- All units are in ug/L or ppb
- **Bold text indicates NYSDEC GQS exceedances.**
- ND – Not Detected
- NQ – No Qualification needed
- NS (Blank) – No Standard

Table 12

Groundwater Analytical Results and Data Usability Summary
Pesticides, 8081 Target List
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC GQS (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
4,4'-DDD	0.3	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4,4-DDE	0.2	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
4,4-DDT	0.2	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aldrin	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
alpha-BHC	0.01	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
alpha-Chlordane	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
beta-BHC	0.04	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Chlordane, total	0.05	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
delta-BHC	0.04	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Dieldrin	0.004	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Endosulfan I	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Endosulfan II	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Endosulfan sulfate	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Endrin	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Endrin aldehyde	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Endrin ketone	5	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
gamma-BHC (Lindane)	0.05	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Gamma-Chlordane	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Heptachlor	0.04	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Heptachlor epoxide	0.03	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Methoxychlor	35	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Toxaphene	0.06	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Notes:

- NYS Groundwater Quality Standards
- All units are in ug/L or ppb
- **Bold text indicates NYSDEC GQS exceedances.**
- ND – Not Detected
- NQ – No Qualification needed
- NS (Blank) – No Standard

Table 13

Groundwater Analytical Results and Data Usability Summary
Chlorinated Herbicides
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC GQS (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
2,4,5-T	35	ND		ND		ND		ND		ND		ND	
2,4,5-TP (Silvex)	0.26	ND		ND		ND		ND		ND		ND	
2,4-D	50	ND		ND		ND		ND		ND		ND	
2,4-DB	NS	ND	48 UJ	ND	47 UJ	ND	49 UJ	ND	47 UJ	ND	47 UJ	ND	47 UJ
Dalapon	50	ND		ND		ND		ND		ND		ND	
Dicamba	0.44	ND		ND		ND		ND		ND		ND	
Dichloroprop	NS	ND		ND		ND		ND		ND		ND	
Dinoseb	5.0	ND		ND		ND		ND		ND		ND	

Notes:

- NYS Groundwater Quality Standards
- All units are in ug/L or ppb
- **Bold text indicates NYSDEC GQS exceedances.**
- ND – Not Detected
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- NS (Blank) – No Standard

Table 14

Groundwater Analytical Results and Data Usability Summary
Polychlorinated Biphenyls (PCBs)
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC GQS (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
Aroclor 1016	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aroclor 1221	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aroclor 1232	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aroclor 1242	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aroclor 1248	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aroclor 1254	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
Aroclor 1260	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ
*Total Polychlorinated Biphenyls (PCBs)	NS	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Notes:

- NYS Groundwater Quality Standards
- All units are in ug/L or ppb
- **Bold text indicates NYSDEC GQS exceedances.**
- ND – Not Detected
- NQ – No Qualification needed
- NS (Blank) – No Standard

Table 15

Groundwater Analytical Results and Data Usability Summary
Metals, Target Analyte
1665 Stillwell Avenue, Brooklyn, NY

Compounds	NYSDEC GQS (mg/L)	SB-2/GW-1 05/31/2022 (mg/L)		SB-7/GW-2 05/31/2022 (mg/L)		SB-3/GW-3 05/31/2022 (mg/L)		SB-4/GW-4 05/31/2022 (mg/L)		SB-5/GW-5 05/31/2022 (mg/L)		SB-6/GW-6 05/31/2022 (mg/L)	
Aluminum	0.1	0.025		0.011	NQ	0.016		<0.011		<0.011		0.015	
Antimony	0.003	< 0.003		< 0.003	NQ	< 0.003		< 0.003		< 0.003		< 0.003	
Arsenic	0.025	<0.004		<0.004	NQ	<0.004		<0.004		0.004		<0.004	
Barium	1	0.149		0.108	NQ	0.114		0.139		0.177		0.075	
Beryllium	0.003	< 0.001		< 0.001	NQ	< 0.001		< 0.001		< 0.001		< 0.001	
Cadmium	0.005	< 0.001		< 0.001	NQ	< 0.001		< 0.001		< 0.001		< 0.001	
Calcium	NS	101		36.1	NQ	38.5		45.2		44.6		35.8	
Chromium	0.05	< 0.001		< 0.001	NQ	< 0.001		< 0.001		< 0.001		< 0.001	
Cobalt	NS	0.005		0.001	NQ	0.001		0.001		0.002		0.001	
Copper	0.2	< 0.005		< 0.005	NQ	< 0.005		< 0.005		< 0.005		< 0.005	
Iron	0.5	**1.16**		0.041	NQ	**3.13**		<0.011	0.011 UJ	**0.608**		**1.45**	
Lead	0.025	< 0.002		< 0.002	NQ	< 0.002		0.002	0.02 J	< 0.002		< 0.002	
Magnesium	35	**40.8**		13.6	NQ	15		14.4		22.3		18.1	
Manganese	0.3	**4.75**		**0.97**	NQ	**6.17**		**1.87**		**2.68**		**3.03**	
Nickel	0.1	0.083		0.01	NQ	0.005		0.007		0.015		0.004	
Potassium	NS	5.8		3.8	NQ	4.3		5.5		4.3		3.6	
Selenium	0.01	< 0.010		< 0.010	NQ	< 0.010		< 0.010		< 0.010		< 0.010	
Silver	0.05	< 0.002		< 0.002	NQ	< 0.002		< 0.002		< 0.002		< 0.002	
Sodium	20	**120**		**292**	NQ	**140**		**394**		**158**		**57.6**	
Thallium	0.0005	<0.0005		<0.0005	NQ	<0.0005		<0.0005		<0.0005		<0.0005	
Vanadium	NS	<0.002		<0.002	NQ	<0.002		<0.002		<0.002		<0.002	
Zinc	2	0.004	0.004 J+	<0.002	NQ	0.003		<0.002		0.005		<0.002	
Mercury	0.0007	< 0.0002		< 0.0002	NQ	< 0.0002	0.003 J+	< 0.0002	0.002 J+	< 0.0002	0.003 J+	< 0.0002	0.003 J+

Notes:

- NYS Groundwater Quality Standards
- All units are in mg/L or ppm
- **Bold text indicates NYSDEC GQS exceedances.**
- ND – Not Detected
- NS (Blank) – No Standard
- NQ – No Qualification needed.
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J – The result is an estimated quantity. The associated numerical value is approximate concentration of the analyte in the sample.
- J+ - The result is an estimate quantity, but the result may be biased high.
- * – Metals, Target Analyte, ICPMS

Table 16

Groundwater Analytical Results and Data Usability Summary
PFAS, NYSDEC Target List
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND	NYSDEC Standards (ng/L)	SB-2/GW-1 05/31/2022 (ng/L)		SB-7/GW-2 05/31/2022 (ng/L)		SB-3/GW-3 05/31/2022 (ng/L)		SB-4/GW-4 05/31/2022 (ng/L)		SB-5/GW-5 05/31/2022 (ng/L)		SB-6/GW-6 05/31/2022 (ng/L)	
Perfluorobutanesulfonic acid (PFBs)	NS	7.56		4.52		6.73		7.07		2.65		9.27	
Perfluorohexanoic acid (PFHxA)	NS	13.6		ND		15.9		7.67		10.7		58.2	
Perfluoroheptanoic acid (PFHpA)	NS	13		ND		12.9		4.98		13.9		30.3	
Perfluorohexanesulfonic acid (PFHxS)	NS	14.1		4.65		7.25		5.69		5.07		16.1	
Perfluorooctanoic acid (PFOA)	0.01	**48.2**		**14.6**		**45.8**		**43.6**		**44.2**		**222**	222 J
Perfluorooctanesulfonic acid (PFOS)	0.01	**10.4**		**13.1**		**11.8**		**14.1**		**20**		**130**	
Perfluorononanoic acid (PFNA)	NS	ND		ND		ND		ND		ND		5.95	
Perfluorodecanoic acid (PFDA)	NS	ND		ND		ND		ND		ND		ND	
Perfluoroundecanoic acid (PFUnA)	NS	ND		ND		ND		ND		ND		ND	
Perfluorododecanoic acid (PFDoA)	NS	ND		ND		ND		ND		ND		ND	
Perfluorotridecanoic acid (PFTrDA)	NS	ND		ND		ND		ND		ND		ND	
Perfluorotetradecanoic acid (PFTA)	NS	ND		ND		ND		ND		ND		ND	
N-MeFOSAA	NS	ND		ND		ND		ND		ND		ND	
N-EtFOSAA	NS	ND		ND		ND		ND		ND		ND	
Perfluoropentanoic acid (PFPeA)	NS	15		ND		16.3		7.26		13.6		54.7	
Perfluoro-1-octanesulfonamide (FOSA)	NS	ND		ND	1.79 UJ	ND	1.85 UJ	ND	1.85 UJ	ND		ND	1.92 UJ
Perfluoro-1-heptanesulfonic acid (PFHpS)	NS	3.25		ND		ND		ND		ND		6.04	
Perfluoro-1-decanesulfonic acid (PFDS)	NS	ND		ND		ND		ND		ND		ND	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	NS	ND	4.63 UJ	ND	4.63 UJ	ND	4.63 UJ	ND	4.63 UJ	ND	4.73 UJ	ND	4.81 UJ
Perfluoro-n-butanoic acid (PFBA)	NS	2.95		8.62		13.8		20.2		12.4		23.6	

Notes:

- NYSDEC Standards for Perfluoroalkyl Substances
- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- All units are in ng/L or ppt
- **Bold text indicates NYSDEC exceedances.**
- ND – Not Detected
- NS (Blank) – No Standard

Table 17

Groundwater Analytical Results and Data Usability Summary
Semi Volatiles, 1,4-Dioxane 8270 SIM
288 4th Avenue, Brooklyn, NY

COMPOUND	NYSDEC Standards (µg/L)	SB-2/GW-1 05/31/2022 (µg/L)		SB-7/GW-2 05/31/2022 (µg/L)		SB-3/GW-3 05/31/2022 (µg/L)		SB-4/GW-4 05/31/2022 (µg/L)		SB-5/GW-5 05/31/2022 (µg/L)		SB-6/GW-6 05/31/2022 (µg/L)	
1,4 - Dioxane	1.0	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ	ND	NQ

Notes:

- NYS Standards
- All units are in ug/L or ppb
- **Bold text indicates NYSDEC GQS exceedances.**
- ND – Not Detected
- NQ – No Qualification needed
- NS (Blank) – No Standard

Table 18

Soil Vapor Analytical Results and Data Usability Summary
Volatile Organic Compounds
1665 Stillwell Avenue, Brooklyn, NY

COMPOUND Volatile Organics, EPA TO-15	NYSDOH Soil Outdoor Background Levels (µg/m³)	SV-1 03/15/2022 (µg/m³)		SV-2 03/15/2022 (µg/m³)		SV-3 03/15/2022 (µg/m³)		SV-4 03/16/2022 (µg/m³)		OA-1 03/16/2022 (µg/m³)	
1,1,1,2-Tetrachloroethane	NS	ND	5.00 UJ	ND		ND		ND		ND	
1,1,1-Trichloroethane	<2.0-2.8	ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	<1.5	ND	5.0 UJ	ND		ND		ND		ND	
1,1,2-Trichloroethane	<1.0	ND		ND		ND		ND		ND	
1,1-Dichloroethane	<1.0	ND		ND		ND		ND		ND	
1,1-Dichloroethene	<1.0	ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NS	ND		ND		ND		ND		ND	
1,2,4-Trimethylbenzene	<1.0	**614**	614 J	**496**		**79.6**		**403**		**1.21**	
1,2-Dibromoethane (EDB)	<1.5	ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	<2.0	ND	5.00 UJ	ND		ND		ND		ND	
1,2-Dichloroethane	<1.0	ND		ND		ND		ND		ND	
1,2-Dichloropropane	NS	ND		ND		ND		ND		ND	
1,2-Dichlorotetrafluoroethane	NS	ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	<1.0	**136**	136 J	**120**		**18.2**		**95.3**		ND	
1,3-Butadiene	NS	ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	<2.0	ND	5.00 UJ	ND		ND		ND		ND	
1,4-Dichlorobenzene	NS	ND	5.00 UJ	ND		ND		ND		ND	
1,4-Dioxane	NS	ND		ND		ND		ND		ND	
2-Hexanone (MBK)	NS	ND		ND		ND		ND		ND	
4-Ethyltoluene	NS	648	648 J	540		74.7		462		1.01	
4-Isopropyltoluene	NS	17.5	17.5 J	17.1		2.79		13.0		ND	
4-Methyl-2-pentanone (MIBK)	NS	ND		ND		ND		ND		ND	
Acetone	NS	1,240	1,240	1,320	1,320	212	212	1,050	1,050	18.7	
Acrylonitrile	NS	ND		ND		ND		ND		ND	
Benzene	<1.6 - 4.7	**239**		**259**		**30.7**		**224**		ND	
Benzyl chloride	NS	ND	5.00 UJ	ND		ND		ND		ND	
Bromodichloromethane	<5.0	ND		ND		ND		ND		ND	
Bromoform	<1.0	ND	5.00 UJ	ND		ND		ND		ND	
Bromomethane	<1.0	ND		ND		ND		ND		ND	
Carbon Disulfide	NS	29.2		28.3		1.84		27.0		ND	
Carbon Tetrachloride	<3.1	ND	5.01 UJ	ND		0.51		ND		0.47	
Chlorobenzene	<2.0	ND		ND		ND		ND		ND	
Chloroethane	NS	ND		ND		ND		ND		ND	
Chloroform	<2.4	**16.6**		ND		ND		ND		ND	

COMPOUND Volatile Organics, EPA TO-15	NYSDOH Soil Outdoor Background Levels (µg/m^3)	SV-1 03/15/2022 (µg/m^3)		SV-2 03/15/2022 (µg/m^3)		SV-3 03/15/2022 (µg/m^3)		SV-4 03/16/2022 (µg/m^3)		OA-1 03/16/2022 (µg/m^3)	
Chloromethane	<1.0 – 1.4	ND		ND		**1.34**		ND		**1.17**	
Cis-1,2-Dichloroethene	<1.0	ND		ND		ND		ND		ND	
cis-1,3-Dichloropropene	NS	ND		ND		ND		ND		ND	
Cyclohexane	NS	ND		ND		23.6		ND		ND	
Dibromochloromethane	<5.0	ND		ND		ND		ND		ND	
Dichlorodifluoromethane	NS	408		414		2.35		ND		2.07	
Ethanol	NS	1,010	1,010	652	652	142	142	574	574	84.0	84.0 J
Ethyl acetate	NS	ND		ND		1.13		ND		ND	
Ethylbenzene	<4.3	**331**	331 J	**300**		**37.7**		**303**		ND	
Heptane	NS	422		442		81.9		389		1.05	
Hexachlorobutadiene	NS	ND	5.00 UJ	ND		ND		ND		ND	
Hexane	<1.5	**680**		**1,100**	1,100	**112**		**571**		**2.09**	
Isopropyl alcohol	NS	38.1		37.3		10.8		35.4		5.92	
Isopropylbenzene	NS	27.1	27.1 J	23.8		4.50		20.9		ND	
m, p-Xylene	<4.3	**1,370**	1,370 J	**1,290**		**154**		**1,230**		**1.66**	
Methyl Ethyl Ketone	NS	129		107		13.4		100		1.95	
Methyl tert-butyl ether (MTBE)	NS	ND		ND		ND		ND		ND	
Methylene Chloride	<3.4	ND		ND		ND		ND		ND	
n-Butylbenzene	NS	ND	5.00 UJ	ND		ND		27.6		ND	
o-Xylene	<4.3	**394**	394 J	**360**		**49.9**		**336**		ND	
Propylene	NS	12.7		5.19		3.68		25.6		ND	
sec-Butylbenzene	NS	9.11	9.11 J	8.78		1.25		8.23		ND	
Styrene	<1.0	**19.5**	19.5 J	**18.9**		**1.82**		**19.0**		ND	
Tetrachloroethene (PCE)	NS	**915**		**104**		1.14		39.2		0.41	
Tetrahydrofuran	NS	12.0		12.6		1.87		21.6		ND	
Toluene	1.0 – 6.1	**3,030**	3,030	**2,470**	2,470	**372**	372	**2,790**	2,790	**4.71**	
Trans-1,2-Dichloroethene	NS	ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	NS	ND		ND		ND		ND		ND	
Trichloroethene (TCE)	<1.7	**17.7**		**3.71**		ND		**3.54**		ND	
Trichlorofluoromethane	NS	ND		ND		1.27		ND		1.15	
Trichlorotrifluoroethane	NS	ND		ND		ND		ND		ND	
Vinyl Chloride	<1.0	ND		ND		ND		ND		ND	
Total BTEX		**5,364**		**4,679**		**644.3**		**4,883**		**6.37**	
Total CVOCs		**949.3**		**107.71**		**1.34**		**3.54**		**1.17**	

Notes:

- Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Table C1, Indoor Air, NYSDOH 2003
- All units are in µg/m^3.
- **Bold text indicates exceedances.**

- UJ – The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- ND – Not Detected
- NS (blank) – No Standard

Figure 1 – Site Location Map



PREPARED BY:

RSK ENVIRONMENTAL LLC
132-02 89TH AVE, SUITE #222
RICHMOND HILL, NY 11418
(T) 718-438-2200

PREPARED FOR:

REFULGENCE LLC
8738 20TH AVENUE,
BROOKLYN, NY, 11214

REVISION DATA:

REV	DATE	COMMENT	BY

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PROJECT NAME:

1665 STILLWELL AVE, BROOKLYN, NY, 11223

DRAWING TITLE:

FIGURE 1: SAMPLING LOCATION PLAN

SEAL & SIGNATURE:

STATE OF NEW YORK
THEODORE L. NEW
No. 074960-1
LICENSED PROFESSIONAL ENGINEER

DRAWING DATA:

DATE: 6/1/2022

PROJECT NO: 20191212-1665/ESM

DRAWING BY: BM

CHECK BY: DS

Figure 2 – Surrounding Land Use



PREPARED BY:

RSK ENVIRONMENTAL LLC
132-02 89TH AVE, SUITE #222
RICHMOND HILL, NY 11418
(T) 718-438-2200

PREPARED FOR:

REFULGENCE LLC
8738 20TH AVENUE
BROOKLYN, NY 11214

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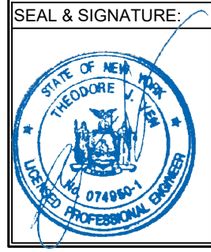
PROJECT NAME:

1665 STILLWELL AVENUE, BROOKLYN, NY 11223 (C224307)

DRAWING TITLE:

FIGURE 2. SURROUNDING LAND USAGE

SEAL & SIGNATURE:



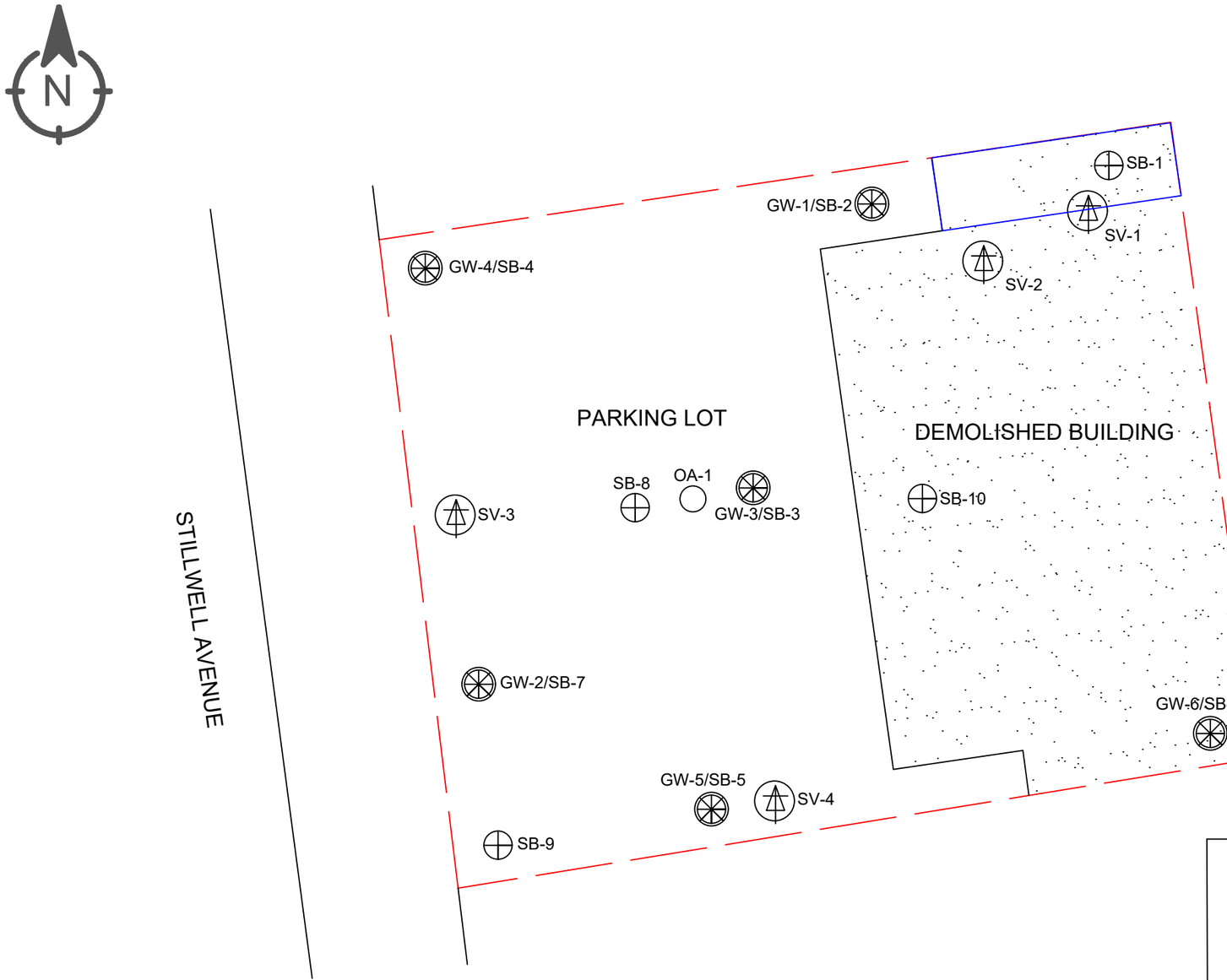
DRAWING DATA:

DATE: 06/23/2022
PROJECT NO: 20191212-1665/ESM
DRAWN BY: DD
CHECK BY: DS

DRAWING NO.:

CAD FILE NO.:

Figure 3 – Sampling Location Plan



LEGEND

- SOIL SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- SOIL VAPOR SAMPLE LOCATION
- BOUNDARY LINE
- AREA OF CONCERN

PREPARED BY:

RSK ENVIRONMENTAL LLC
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SCALE (FEET): 1" = 16'

AS NOTED:

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON FROM ALTERING ANYTHING ON THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS, UNLESS IT IS UNBDER THE DIRECTION OF A LICENSED PROFESSIONAL ENFGINEER. WHERE SUCH ALTERATIONS ARE MADE, THE PROFESSIONAL ENGINEER MUST SIGN, SEAL, DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS. (NYS EDUCATION LAW SECTION 7209-2)

PROJECT NAME:

1665 STILLWELL AVE,
BROOKLYN, NY, 11223

DRAWING TITLE:

FIGURE 3 -
SAMPLING LOCATION MAP

SEAL & SIGNATURE:



DRAWING DATA:

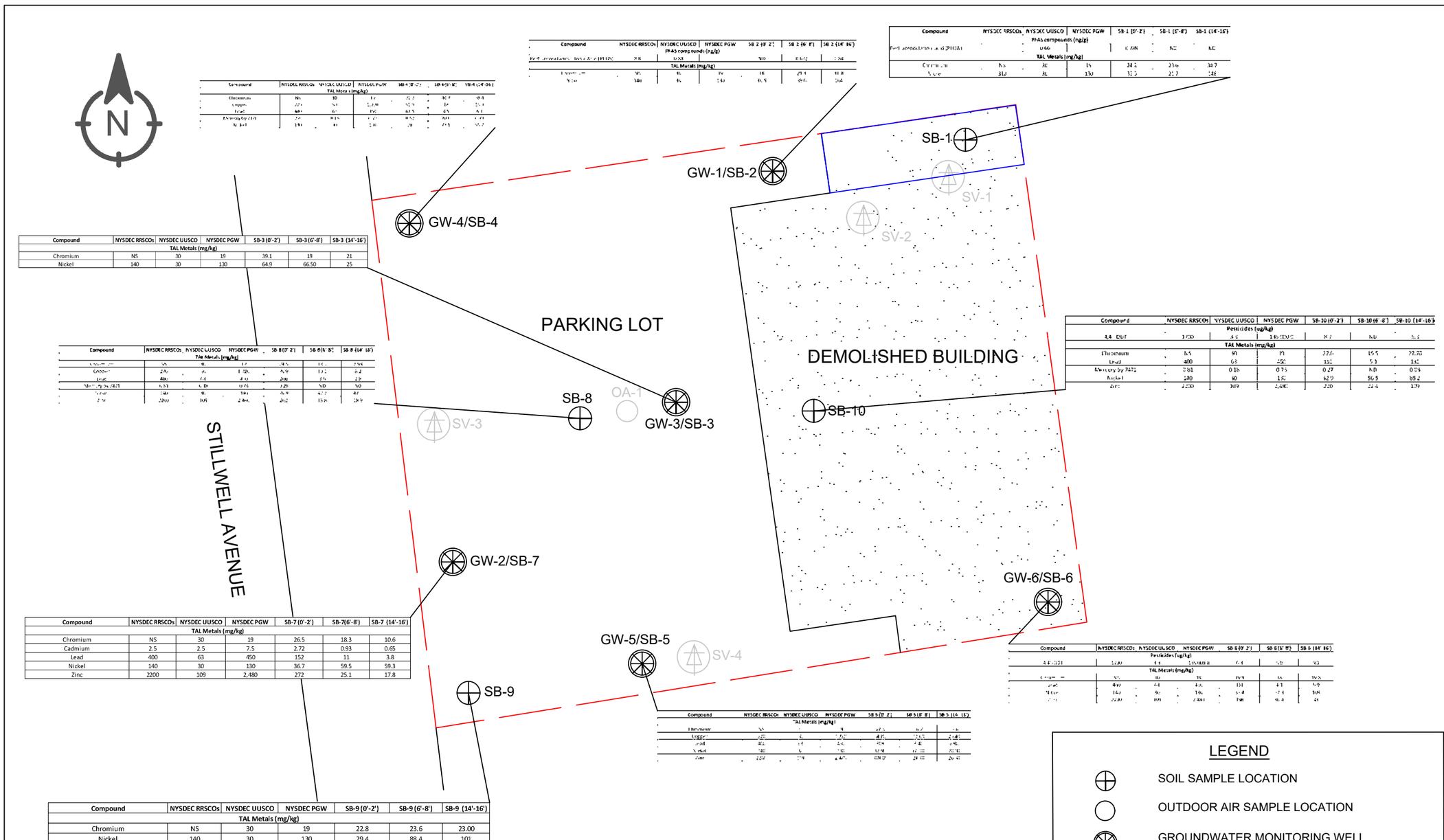
DATE: 7/20/2023

PROJECT NO:
20220428-1665/SC

DRAWING BY: DD

CHECK BY: DS

Figure 3A – Soil Exceedances Spider Map



Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-4 (0'-2')	SB-4 (6'-8')	SB-4 (14'-16')
TAL Metals (mg/kg)						
Chromium	NS	30	19	25.7	30.4	40.8
Copper	270	50	1,720	52.9	64	25.1
Lead	400	63	450	69.5	8.5	4.1
Mercury by 7471	2.8	0.18	0.73	0.07	ND	0.03
Nickel	140	30	130	39	49.5	50.7

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB 2 (0'-2')	SB 2 (6'-8')	SB 2 (14'-16')
PFAS compounds (ng/g)						
Perfluorooctanesulfonic acid (PFOS)	3.8	0.088		ND	0.0672	0.34
TAL Metals (mg/kg)						
Chromium	NS	30	19	18	23.1	41.8
Nickel	140	30	130	24.9	30.5	25.6

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-1 (0'-2')	SB-1 (6'-8')	SB-1 (14'-16')
PFAS compounds (ng/g)						
Perfluorooctanesulfonic acid (PFOS)		0.088		0.208	ND	ND
TAL Metals (mg/kg)						
Chromium	NS	30	19	24.2	23.6	38.7
Nickel	140	30	130	32.5	25.7	28

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-3 (0'-2')	SB-3 (6'-8')	SB-3 (14'-16')
TAL Metals (mg/kg)						
Chromium	NS	30	19	39.1	19	21
Nickel	140	30	130	64.9	66.50	25

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-8 (0'-2')	SB-8 (6'-8')	SB-8 (14'-16')
TAL Metals (mg/kg)						
Chromium	NS	30	19	39.5	19.6	21.6
Copper	270	50	1,720	58.9	13.6	6.2
Lead	400	63	450	208	8.5	2.8
Mercury by 7471	2.8	0.18	0.73	1.28	ND	ND
Nickel	140	30	130	58.9	42.7	47
Zinc	2200	109	2,480	262	19.8	19.9

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-10 (0'-2')	SB-10 (6'-8')	SB-10 (14'-16')
Pesticides (ug/kg)						
4,4' DDT	1.9	8.5	1.8E+03	8.7	ND	5.5
TAL Metals (mg/kg)						
Chromium	NS	30	19	22.6	19.5	27.20
Lead	400	63	450	182	5.3	3.6
Mercury by 7471	2.81	0.18	0.73	0.27	ND	0.04
Nickel	140	30	130	42.9	30.5	88.2
Zinc	2200	109	2,480	220	22.4	19.9

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-7 (0'-2')	SB-7(6'-8')	SB-7 (14'-16')
TAL Metals (mg/kg)						
Chromium	NS	30	19	26.5	18.3	10.6
Cadmium	2.5	2.5	7.5	2.72	0.93	0.65
Lead	400	63	450	152	11	3.8
Nickel	140	30	130	36.7	59.5	59.3
Zinc	2200	109	2,480	272	25.1	17.8

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-9 (0'-2')	SB-9 (6'-8')	SB-9 (14'-16')
TAL Metals (mg/kg)						
Chromium	NS	30	19	22.8	23.6	23.00
Nickel	140	30	130	29.4	88.4	101

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-5 (0'-2')	SB-5 (6'-8')	SB-5 (14'-16')
TAL Metals (mg/kg)						
Chromium	NS	30	19	24.5	16.7	21.6
Copper	270	50	1,720	48.6	12.5	2.48
Lead	400	63	450	80.4	7.8	2.46
Nickel	140	30	130	42.8	32.8	22.70
Zinc	2200	109	2,480	204.0	19.8	20.40

Compound	NYSDEC RRSCOs	NYSDEC UUSCO	NYSDEC PGW	SB-6 (0'-2')	SB-6 (6'-8')	SB-6 (14'-16')
Pesticides (ug/kg)						
4,4' DDT	1.9	8.5	1.8E+03	6.4	ND	5.5
TAL Metals (mg/kg)						
Chromium	NS	30	19	19.6	19.4	19.30
Lead	400	63	450	134	4.1	3.9
Nickel	140	30	130	34.8	27.6	39.8
Zinc	2200	109	2,480	198	16.4	21

LEGEND

- SOIL SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- SOIL VAPOR SAMPLE LOCATION
- BOUNDARY LINE
- AREA OF CONCERN

PREPARED BY:

RSK ENVIRONMENTAL LLC
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(T) 718-438-2200

PREPARED FOR:

REFULGENCE LLC
8738 20TH AVENUE,
BROOKLYN, NY, 11214

REVISION DATA:

REV	DATE	COMMENT	BY

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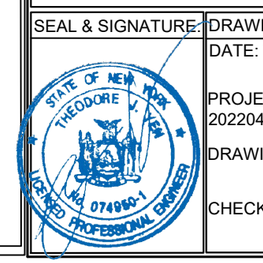
PROJECT NAME:

1665 STILLWELL AVE, BROOKLYN, NY, 11223

DRAWING TITLE:

FIGURE 3A:
SOIL EXCEEDANCES MAP

SEAL & SIGNATURE:



DRAWING DATA:

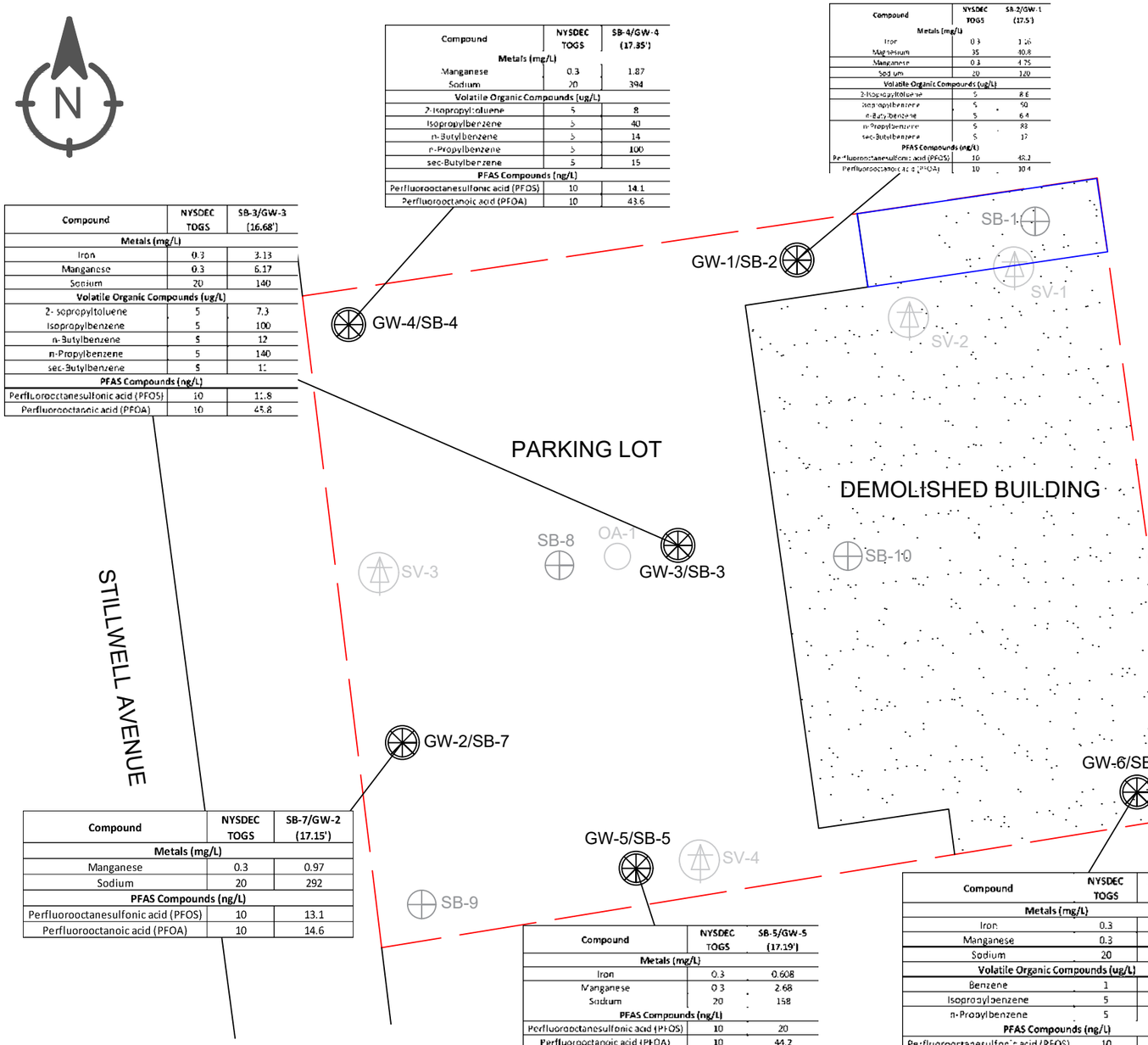
DATE: 7/20/2023

PROJECT NO:
20220428-1665/SC

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Figure 3B – Groundwater Exceedances Spider Map



Compound	NYSDEC TOGS	SB-3/GW-3 (16.68')
Metals (mg/L)		
Iron	0.3	3.13
Manganese	0.3	6.17
Sodium	20	140
Volatile Organic Compounds (ug/L)		
2- sopropyltoluene	5	7.3
Isopropylbenzene	5	100
n-Butylbenzene	5	12
n-Propylbenzene	5	140
sec-Butylbenzene	5	1[illegible]
PFAS Compounds (ng/L)		
Perfluorooctanesulfonic acid (PFOS)	10	11.8
Perfluorooctanoic acid (PFOA)	10	45.8

Compound	NYSDEC TOGS	SB-4/GW-4 (17.35')
Metals (mg/L)		
Manganese	0.3	1.87
Sodium	20	394
Volatile Organic Compounds (ug/L)		
2-Isopropyltoluene	5	8
Isopropylbenzene	5	40
n-Butylbenzene	5	14
n-Propylbenzene	5	100
sec-Butylbenzene	5	15
PFAS Compounds (ng/L)		
Perfluorooctanesulfonic acid (PFOS)	10	14.1
Perfluorooctanoic acid (PFOA)	10	43.6

Compound	NYSDEC TOGS	SB-1/GW-1 (17.5')
Metals (mg/L)		
Iron	0.3	1.26
Magnesium	35	40.8
Manganese	0.3	4.75
Sodium	20	120
Volatile Organic Compounds (ug/L)		
2-Isopropyltoluene	5	8.6
Isopropylbenzene	5	50
n-Butylbenzene	5	6.4
n-Propylbenzene	5	88
sec-Butylbenzene	5	17
PFAS Compounds (ng/L)		
Perfluorooctanesulfonic acid (PFOS)	10	48.2
Perfluorooctanoic acid (PFOA)	10	30.4

Compound	NYSDEC TOGS	SB-7/GW-2 (17.15')
Metals (mg/L)		
Manganese	0.3	0.97
Sodium	20	292
PFAS Compounds (ng/L)		
Perfluorooctanesulfonic acid (PFOS)	10	13.1
Perfluorooctanoic acid (PFOA)	10	14.6

Compound	NYSDEC TOGS	SB-5/GW-5 (17.19')
Metals (mg/L)		
Iron	0.3	0.608
Manganese	0.3	2.68
Sodium	20	158
PFAS Compounds (ng/L)		
Perfluorooctanesulfonic acid (PFOS)	10	20
Perfluorooctanoic acid (PFOA)	10	44.2

Compound	NYSDEC TOGS	SB-6/GW-6 (16.70')
Metals (mg/L)		
Iron	0.3	1.45
Manganese	0.3	3.03
Sodium	20	57.6
Volatile Organic Compounds (ug/L)		
Benzene	1	2.1
Isopropylbenzene	5	27
n-Propylbenzene	5	26
PFAS Compounds (ng/L)		
Perfluorooctanesulfonic acid (PFOS)	10	130
Perfluorooctanoic acid (PFOA)	10	222

LEGEND

- SOIL SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- SOIL VAPOR SAMPLE LOCATION
- BOUNDARY LINE
- AREA OF CONCERN

PREPARED BY:

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(T) 718-438-2200

PREPARED FOR:

REFULGENCE LLC
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BROOKLYN, NY, 11214

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PROJECT NAME:

1665 STILLWELL AVE, BROOKLYN, NY, 11223

DRAWING TITLE:

FIGURE 3B:
GROUNDWATER EXCEEDANCES MAP

SEAL & SIGNATURE:

STATE OF NEW YORK
THEODORE V. IVEY
074960-1
LICENSED PROFESSIONAL ENGINEER

DRAWING DATA:

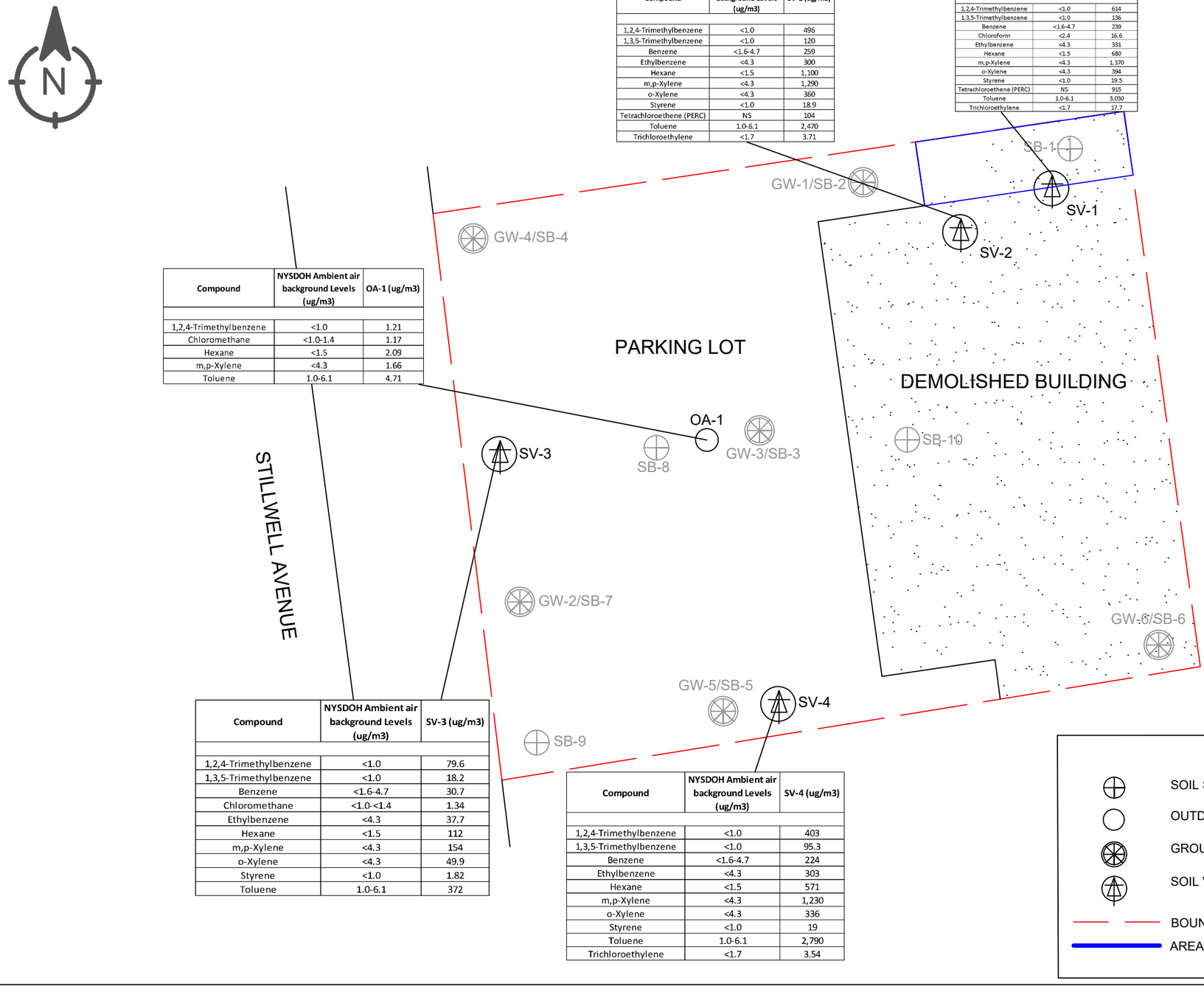
DATE: 7/20/2023

PROJECT NO: 20220428-1665/SC

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Figure 3C – Soil Gas & Indoor/Ambient Air Exceedance Spider Map



Compound	NYSDOH Ambient air background Levels (ug/m3)	SV-2 (ug/m3)
1,2,4-Trimethylbenzene	<1.0	496
1,3,5-Trimethylbenzene	<1.0	120
Benzene	<1.6-4.7	259
Ethylbenzene	<4.3	300
Hexane	<1.5	1,100
m,p-Xylene	<4.3	1,290
o-Xylene	<4.3	360
Styrene	<1.0	18.9
Tetrachloroethene (PERC)	NS	104
Toluene	1.0-6.1	2,470
Trichloroethylene	<1.7	3.71

Compound	NYSDOH Ambient air background Levels (ug/m3)	SV-1 (ug/m3)
1,2,4-Trimethylbenzene	<1.0	614
1,3,5-Trimethylbenzene	<1.0	136
Benzene	<1.6-4.7	239
Chloroform	<2.4	16.6
Ethylbenzene	<4.3	331
Hexane	<1.5	680
m,p-Xylene	<4.3	1,370
o-Xylene	<4.3	394
Styrene	<1.0	19.5
Tetrachloroethene (PERC)	NS	915
Toluene	1.0-6.1	3,030
Trichloroethylene	<1.7	17.7

Compound	NYSDOH Ambient air background Levels (ug/m3)	OA-1 (ug/m3)
1,2,4-Trimethylbenzene	<1.0	1.21
Chloromethane	<1.0-1.4	1.17
Hexane	<1.5	2.09
m,p-Xylene	<4.3	1.66
Toluene	1.0-6.1	4.71

Compound	NYSDOH Ambient air background Levels (ug/m3)	SV-3 (ug/m3)
1,2,4-Trimethylbenzene	<1.0	79.6
1,3,5-Trimethylbenzene	<1.0	18.2
Benzene	<1.6-4.7	30.7
Chloromethane	<1.0-<1.4	1.34
Ethylbenzene	<4.3	37.7
Hexane	<1.5	112
m,p-Xylene	<4.3	154
o-Xylene	<4.3	49.9
Styrene	<1.0	1.82
Toluene	1.0-6.1	372

Compound	NYSDOH Ambient air background Levels (ug/m3)	SV-4 (ug/m3)
1,2,4-Trimethylbenzene	<1.0	403
1,3,5-Trimethylbenzene	<1.0	95.3
Benzene	<1.6-4.7	224
Ethylbenzene	<4.3	303
Hexane	<1.5	571
m,p-Xylene	<4.3	1,230
o-Xylene	<4.3	336
Styrene	<1.0	19
Toluene	1.0-6.1	2,790
Trichloroethylene	<1.7	3.54

LEGEND

- SOIL SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- SOIL VAPOR SAMPLE LOCATION
- BOUNDARY LINE
- AREA OF CONCERN

PREPARED BY:

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RICHMOND HILL, NY 11418
(T) 718-438-2200

PREPARED FOR:

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8738 20TH AVENUE,
BROOKLYN, NY, 11214

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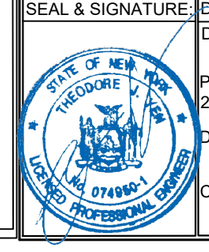
PROJECT NAME:

1665 STILLWELL AVE,
BROOKLYN, NY, 11223

DRAWING TITLE:

FIGURE 3C:
SOIL VAPOR & OUTDOOR AIR SAMPLES EXCEEDANCES MAP

SEAL & SIGNATURE:



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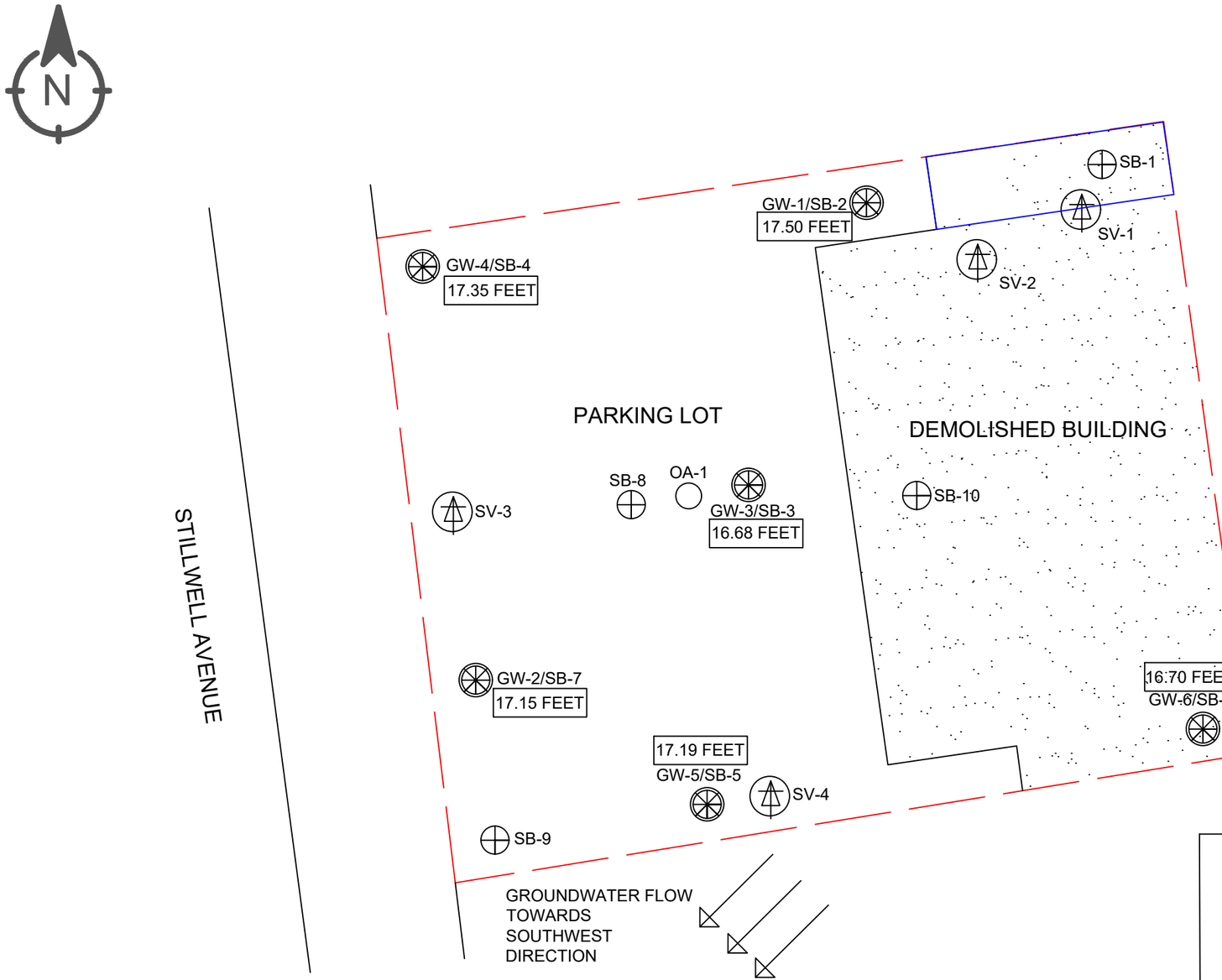
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PROJECT NO:
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Figure 4 – Groundwater Elevation and Direction Map



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BROOKLYN, NY, 11214

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PROJECT NAME:

1665 STILLWELL AVENUE,
BROOKLYN, NY 11223
(C224307)

DRAWING TITLE:

FIGURE 4 - GROUNDWATER ELEVATION AND DIRECTION MAP

SEAL & SIGNATURE:



DRAWING DATA:

DATE: 07/20/2023

PROJECT NO:
20220428-1665/SC

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Appendix A - Site Redevelopment Plans

SCOPE OF WORK
1. PROPOSED 5 STORY NEW BUILDING.
2. OBTAIN A NEW C OF O.

ZONING INFORMATION

BLOCK	6618
LOT	48
ZONE	R6B WITH C2-3 COMMERCIAL OVERLAY
MAP No.	22D
ADDRESS	1665 STILLWELL AVENUE, BROOKLYN NY 11223
LOT AREA	SEE SURVEY 80.00'X100.00' = 8,000.00 S.F.

COMMERCIAL:

FLOOR AREA SUMMERY (COMMERCIAL USE, U.G. 6) ***PLEASE SEE FLOOR AREA DIAGRAMS AT Z-002.00***

		PROPOSED F.A.	DEDUCTION	TOTAL
~~CELLAR (NOT F.A.)~~	~~COM. U.G. 6~~	~~4,030.00 S.F.~~	~~0 S.F.~~	~~4,030.00 S.F.~~
1ST FLOOR	COM. U.G. 6	3,493.63 S.F.	69.10 S.F.	3,424.53 S.F.
TOTAL FLOOR AREA				3,424.53 S.F.

PROPOSED FLOOR AREA CALCULATION (COMMERCIAL U.G. 6)

MAX ALLOWABLE F.A.R. R6B=2.00	(LOT AREA = 8,000.00 S.F.)X(MAX ALLOW. = 2.0)=16,000.00 S.F.	(ZR 35-31,ZR 33-121)
PROPOSED COM. F.A.	= 3,424.53 S.F. < 16,000.00 S.F. ...OK	
PROPOSED COM. F.A.R	3,424.53 S.F. / 8,000.00 S.F. = 0.428 (0.428 < 2.00) ...OK	

YARD REGULATIONS (COMMERCIAL U.G. 6)

MAX COMMERCIAL COVERAGE DICTATE BY YARD REQUIREMENT		
REQ. SIDE YARD	0' OR 8'	(ZR 33-25)
PROPOSED SIDE YARD	PROPOSED SIDE YARD 14'-10" = 14'-10" ...OK	(ZR 33-25)
REQ. REAR YARD	20'-0"	(ZR 33-26)
PROPOSED REAR YARD	PROPOSED REAR YARD 38'-0" = 38'-0" ...OK	(ZR 33-26)

PARKING REGULATION (COMMERCIAL U.G. 6)

REQ'D COMMERCIAL PARKING	1 PER 400 S.F. (C2-3, GENERAL RETAIL) = (4,030.00 + 3,424.53)/400 = 18.64 USE 19 REQ'D	(ZR 36-21)
PROPOSED PARKING	WAIVED IF LESS THAN 25 REQ'D = 0 PROPOSED ...OK	(ZR 36-231)

BICYCLE PARKING REGULATIONS (COMMERCIAL U.G. 6)

COMMERCIAL PARKING	REQ 1 PER 10,000 S.F. (4,030.00 + 3,424.53)/10,000 = 1 REQ'D	(ZR 36-711)
PROPOSED PARKING	WAIVED IF LESS THAN 3 REQ'D = 0 PROPOSED ...OK	(ZR 36-711(d))

RESIDENTIAL:

FLOOR AREA SUMMERY (RESIDENTIAL U.G. 2) ***PLEASE SEE FLOOR AREA DIAGRAMS AT Z-002.00***

		PROPOSED F.A.	DEDUCTION	TOTAL
1ST FLOOR	LOBBY, U.G. 2B	536.13 S.F.	~~231.96 S.F.~~	304.17 S.F.
2ND FLOOR	4 FAMILY, U.G. 2A	3,243.95 S.F.	~~143.20 S.F.~~	3,100.75 S.F.
3RD FLOOR	4 FAMILY, U.G. 2A	3,243.95 S.F.	~~143.20 S.F.~~	3,100.75 S.F.
4TH FLOOR	4 FAMILY, U.G. 2A	3,243.95 S.F.	~~143.20 S.F.~~	3,100.75 S.F.
5TH FLOOR	4 FAMILY, U.G. 2A	3,011.45 S.F.	~~129.80 S.F.~~	2,881.65 S.F.
BULKHEAD (NOT F.A.)	STAIR & ELEVATOR BULK, MECH. ROOM U.G. 2B	~~1,319.25 S.F.~~	~~0 S.F.~~	~~1,319.25 S.F.~~
TOTAL FLOOR AREA		13,279.43 S.F.	791.36 S.F.	12,488.07 S.F.

FLOOR AREA AND COVERAGE REGULATIONS (RESIDENTIAL U.G. 2)

RESIDENTIAL MAX. F.A.R. R6B = 2.00		(ZR 35-31, ZR 23-153)
MAX ALLOWABLE F.A.R. = 2.00	(LOT AREA= 8,000.00 S.F. X MAX ALLOW = 2.00) = 16,000.00 S.F.	
PROPOSED RESIDENTIAL F.A.	= 12,488.07 S.F. < 16,000.00 S.F. ...OK	
PROPOSED RESIDENTIAL F.A.R	12,488.07 S.F. / 8,000.00 S.F. = 1.561 (1.561 < 2.00 ...OK)	
RESIDENTIAL MAX. COVERAGE R6B		
MAX COVERAGE (IN PERCENT)	R6B = 60%	(ZR 23-153, ZR 35-33, ZR 35-34)
MAX COVERAGE	60% x 8,000.00 S.F. = 4,800.00 S.F. > 3,243.95 ...OK	
PROPOSED COVERAGE	3,243.95 / 8,000.00 = 0.405 = 40.5% < 60% ...OK	

DENSITY CACULATION (RESIDENTIAL U.G. 2)

R6B = R6 F.A. PER DU. = 680	(16,000.00 – 3,424.53 COMMERCIAL) / 680 = 18.49 USE 18 DU ALLOW	(ZR 23-22, ZR 23-24, ZR 35-40)
PROPOSED DU	PROPOSED 16 DU = 16 < 18 ...OK	

MINIMUM LOT AREA AND WIDTH FOR RESIDENTIAL

REQ'D SIZE OF LOT WIDTH	EXISTING LOT WIDTH 80'-0" > 18'-0" ...OK	(ZR 23-32)
REQ'D SIZE OF LOT AREA	EXISTING LOT AREA 8,000.00 > 1,700 ...OK	(ZR 23-32)

YARD REGULATIONS

REQ'D FRONT YARD	NONE REQUIRED	(ZR 35-51)
PROPOSED FRONT YARD	PROPOSED FRONT YARD = 0' ...OK	
REQ'D SIDE YARD	= 0' OR 8'	(ZR 35-52, ZR 23-462(c))
PROPOSED SIDE YARD	PROPOSED SIDE YARD 14'-10" = 14'-10" ...OK	
REQ'D REAR YARD	MIN. 30'	(ZR 35-53, ZR 23-47)
PROPOSED REAR YARD	PROPOSED REAR YARD = 48'-8" ...OK = OK	

STREET WALL LOCATION (SEE DIAGRAM AT Z-003.00)

REQ'D STREET WALL LOCATION	MIN. 70% OF THE AGGREGATE WIDTH OF STREET WALL SHALL BE LOCATED WITHIN 8'-0" OF STREET LINE, AND EXTEND TO AT LEAST MIN. BASE HEIGHT	(ZR 35-651(a))
PROPOSED STREET WALL LOCATION	0' AND MAX. 5' FROM STREET LINE, AND EXTEND TO HIGHER THAN MIN. BASE HEIGHT	

HEIGHT AND SETBACK REGULATIONS (SEE DIAGRAM AT Z-003.00)

REQ'D BASE HEIGHT	MIN BASE 30'-0" , MAX BASE 40'-0"	(ZR 35-61, ZR 35-652(a), ZR 23-662(TABLE 1))
PROPOSED BASE HEIGHT	PROPOSED BASE HEIGHT 39'-11 3/4" ...OK	
MAX. BUILDING HEIGHT	MAX. BUILDING HEIGHT 50'-0"	(ZR 35-61, ZR 35-652(a), ZR 23-662(TABLE 1))
PROPOSED BUILDING HEIGHT	PROPOSED BUILDING HEIGHT 49'-11 3/4"...OK	
REQ'D FRONT SETBACK	MIN 10'-0" FRONTING ON WIDE STREET	(ZR 35-61, ZR 35-652, ZR 23-662(c)(1))
PROPOSED FRONT SETBACK	PROPOSED FRONT SETBACK 10'-0" ...OK	

MINIMUM DISTANCE BETWEEN LEGALLY REQUIRED WINDOWS AND WALLS OR LOT LINES

MIN. REQ'D WINDOW DISTANCE	MIN. DISTANCE BETWEEN WINDOW AND REAR LOT LINE = 30'-0"	ZR 23-861
PROPOSED WINDOW DISTANCE	PROPOSED WINDOW DISTANCE = 48'-8" > 30'-0" ...OK	ZR 23-861

PARKING REGULATION (RESIDENTIAL U.G. 2)

REQ'D RESIDENTIAL PARKING	50% OF 16 DU = 8 = 8 REQ'D	(ZR 25-23)
PROPOSED PARKING	PROPOSED 8 PARKING = 8 PROPOSED ...OK	(ZR 25-23)

BICYCLE PARKING REGULATIONS (RESIDENTIAL U.G. 2)

RESIDENTIAL PARKING	REQ 1 SPACE PER 2 DWELLING UNIT = 8 REQ'D	(ZR 25-811)
PROPOSED PARKING	PROPOSED 8 BICYCLE PARKING = 8 PROPOSED ...OK	(ZR 25-811)

COM. + RES

TOTAL F.A.R. CALCULATION

MAX ALLOWABLE F.A.R. = 2.00	(LOT AREA= 8,000.00 S.F. X MAX ALLOW = 2.00) = 16,000.00 S.F.	(ZR 35-31, ZR 33-121, ZR 23-153)
TOTAL PROPOSED F.A.	3,424.53 + 12,488.07 = 15,912.60 S.F. < 16,000.00 S.F. ...OK	
TOTAL ACTUAL F.A.R.	15,912.60 / 8,000.00 = 1.989 < 2.00 ...OK	

STREET TREE

REQ'D STREET TREE	ONE TREE PER 25' 80'-0 / 25'-0" = 3.2 USE 3 REQ'D	(ZR 26-41, ZR 23-03, ZR 33-03)
PROPOSED STREET TREE	= 3 ...OK	

QUALITY HOUSING REQ. (ZR 28-00)
REFUSE STORAGE OR DISPOSAL (ZR 28-12)

REQUIREMENT	RESIDENTIAL STORAGE AND REMOVAL LOCATIONS SHALL BE PROVIDED AT THE RATE OF 2.9 CUBIC FEET PER DWELLING UNIT, PROPOSED 15 DWELLING UNITS, REQ'D STORAGE = 2.9X16 = 46.4 CUBIC FEET A REFUSE DISPOSAL ROOM OF NOT LESS THAN 12 SQUARE FEET WITH NO DIMENSION LESS THAN THREE FEET SHALL BE PROVIDED ON EACH STORY THAT HAS ENTRANCES TO DWELLING UNITS.	(ZR 28-12)
PROPOSED	REQ'D STOARGE AND REFUSE DISPOSAL ROOM ARE PROVIDED, SEE FLOOR PLAN	

DAYLIGHT IN CORRIDOR (ZR 28-14)

REQUIREMENT	FIFTY PERCENT OF THE SQUARE FOOTAGE OF A CORRIDOR MAY BE EXCLUDED FROM THE DEFINITION OF FLOOR AREA IF A WINDOW WITH A CLEAR, NON-TINTED, GLAZED AREA OF AT LEAST 20 SQUARE FEET IS PROVIDED IN SUCH CORRIDOR	(ZR 28-14)
PROPOSED	PROPOSED 20 SF. GLAZED AREA IN CORRIDOR AT 1ST FLOOR = OK TO DEDUCT 50% OF F.A.	

RECREATION SPACE (ZR 28-21)

REQUIREMENT	RECREATION SPACE SHALL PROVIDE AT LEAST THE MINIMUM AMOUNT OF RECREATION SPACE AS SET FORTH IN THE TABLE IN THIS SECTION. R6 = 3.3% OF RESIDENTIAL FLOOR AREA REQ'D RECREATION SPACE = 12,488.07 X 3.3% = 412.11 S.F.	(ZR 28-21)
PROPOSED	PROVIDE RECREATION SPACE ON ROOF. TOTAL 616.50 S.F. > 412.11 S.F. ...OK	

PLANTING (ZR 28-23)

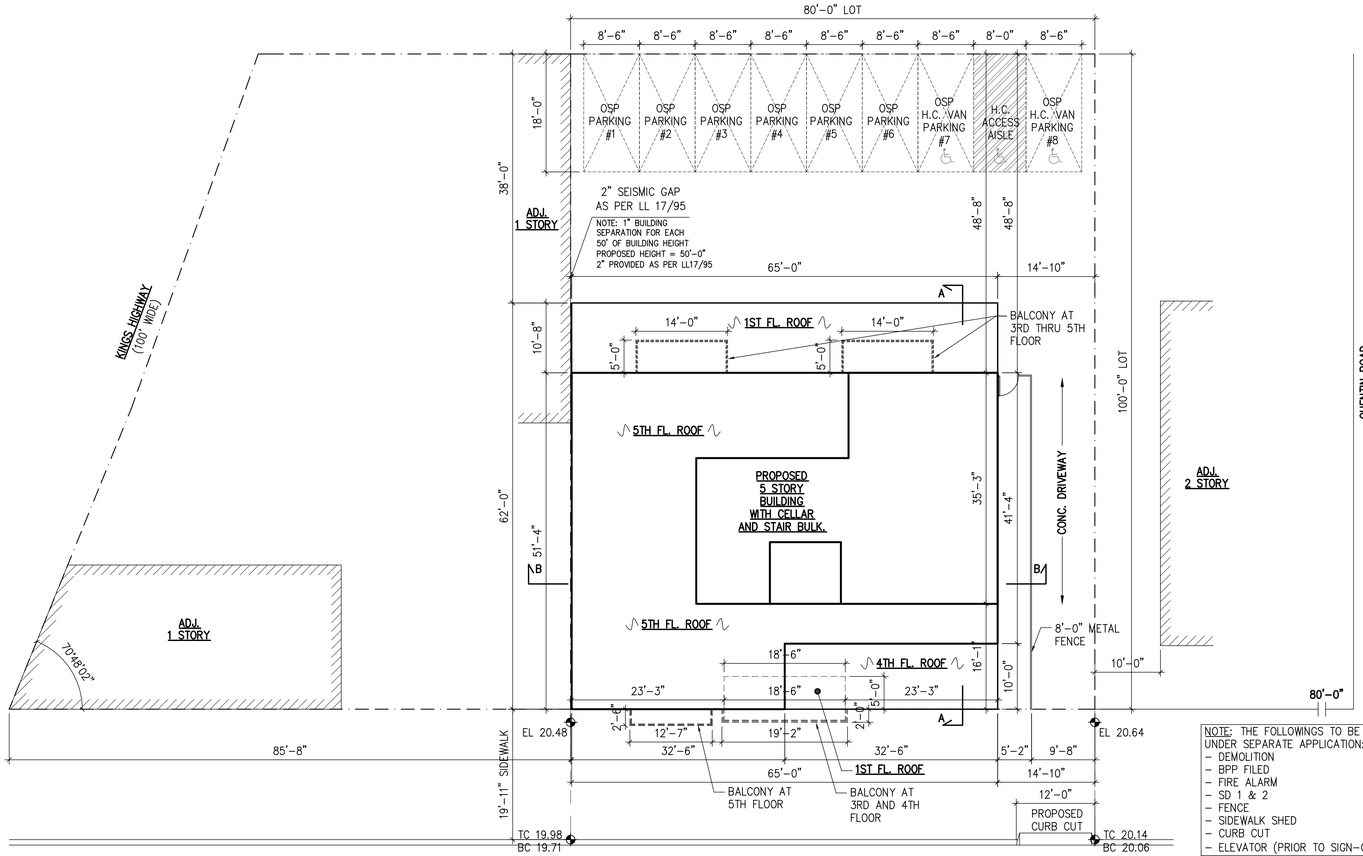
REQUIREMENT	PROVIDE PLANTING BETWEEN STREET WALL AND STREET LINE	(ZR 28-23)
PROPOSED	= N/A, SEE PLOT PLAN	

QUALITY HOUSING REQ. (ZR 28-00) (CONTINUED)
DENSITY PER CORRIDOR (ZR 28-31)

REQUIREMENT	IF THE NUMBER OF DWELLING UNITS OR ROOMING UNITS SERVED BY A VERTICAL CIRCULATION CORE AND CORRIDOR ON EACH STORY DOES NOT EXCEED THE NUMBER SET FORTH IN THE FOLLOWING TABLE, 50 PERCENT OF THE SQUARE FEET OF THE CORRIDOR SERVING SUCH DWELLING UNITS OR ROOMING UNITS ON SUCH STORY MAY BE EXCLUDED FROM THE DEFINITION OF FLOOR AREA. R6 = MAX. 11 DWELLING UNITS PER CORRIDOR	(ZR 28-31)
PROPOSED	MAX. 4 DWELLING UNITS PER CORRIDOR = OK TO DEDUCT 50% OF F.A.	

PARKING FOR QUALITY HOUSING (ZR 28-40)

REQUIREMENT	ACCESSORY OFF-STREET PARKING SHALL BE PROVIDED AS SET FORTH IN THE APPLICABLE UNDERLYING DISTRICT REGULATION.	(ZR 28-40)
REQUIREMENT	50% OF 16 (PROPOSED) D.U. = 8 REQ'D	(ZR 25-23)
PROPOSED	PROPOSED 8 PARKING = 8 PROPOSED ...OK	(ZR 25-23)



PROPOSED PLOT PLAN
SCALE: N.T.S.

BASE PLANE CALCULATION:
(20.48+20.64) / 2 = 20.56
BASE PLANE: EL = 20.56

PROPOSED THREE(3) STREET TREE (OFF-SITE). LOCATION OF TREES PER DPR GUIDE LINE. AS PER ZR 23-03 & ZR 26-41

NOTE: THE FOLLOWINGS TO BE FILED UNDER SEPARATE APPLICATION:
- DEMOLITION
- BPP FILED
- FIRE ALARM
- SD 1 & 2
- FENCE
- SIDEWALK SHED
- CURB CUT
- ELEVATOR (PRIOR TO SIGN-OFF)

NOTE: THE FOLLOWINGS FILED AS SUBSEQUENT FILING UNDER JOB# 321904383:
- MECHANICAL
- PLUMBING
- SPRINKLER
- STRUCTURAL/SOE/FOUNDATION

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STRUCTURAL ENGINEER

PROJECT
NEW BUILDING
1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE
ZONING ANALYSIS PLOT PLAN

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

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Proj. No.	18-1665
Date	12-12-18
Scale	AS NOTED
Drawn	

SEAL

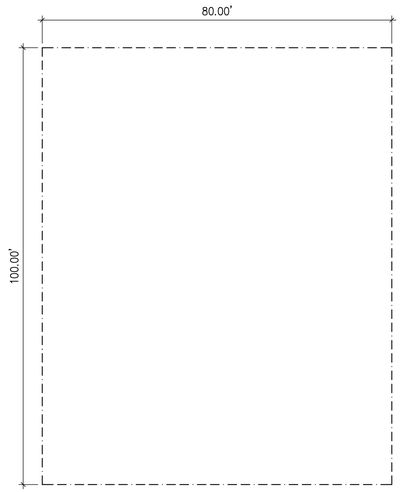
DRAWING NUMBER
Z-001.00

SHEET 1 OF 25

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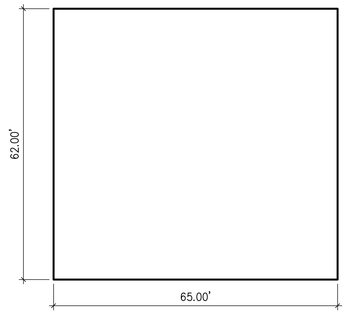
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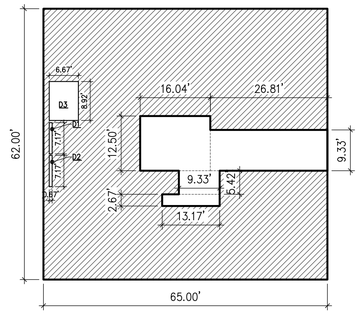
LOT AREA
= 80.00'x100.00'
= 8,000.00 S.F.

CELLAR (COMMERCIAL)



PROPOSED CELLAR F.A.
(COMMERCIAL U.G. 6) (NOT F.A.)
65.00'X62.00'
= 4,030.00 S.F.

1ST FL. (COMMERCIAL)



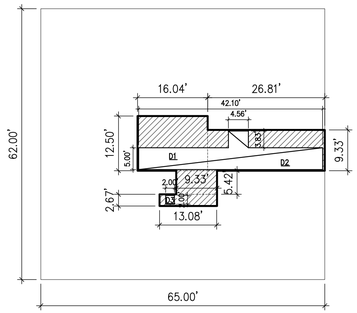
PROPOSED 1ST FLOOR F.A.
(COMMERCIAL U.G. 6)
(65.00'X62.00')-[(16.04'X12.50')+(26.81'X9.33')
+(9.33'X5.42')+(13.17'X2.67')]
= 3,493.63 S.F.

DEDUCTION
D1 (CHASE)=0.67'X7.17'=4.80 S.F.
D2 (CHASE)=0.67'X7.17'=4.80 S.F
D3 (MECH. ROOM)=6.67'X8.92'=59.50 S.F

TOTAL DEDUCTION
= 4.80+4.80+59.50 = 69.10 S.F.

TOTAL 1ST FLOOR F.A.
(COMMERCIAL U.G. 6)
3,493.63 - 69.10
= 3,424.53 S.F.

1ST FL. (RESIDENTIAL)



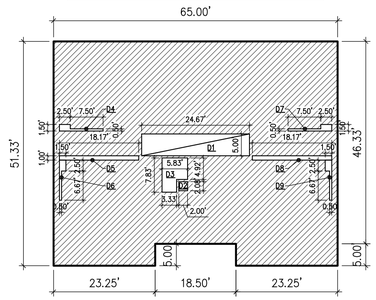
PROPOSED 1ST FLOOR F.A.
(RESIDENTIAL U.G. 2)
(16.04'X12.50')+(26.81'X9.33')
+(9.33'X5.42')+(13.08'X2.67')
= 536.13 S.F.

DEDUCTION
D1 (DAYLIGHT IN CORRIDOR, 50% DEDUCTION)
(AS PER ZR 28-14)
=[(4.56'X3.83')+(5.00'X42.10')]/2=113.98 S.F.
D2 (DENSITY CORRIDOR, 50% DEDUCTION)
(AS PER ZR 28-31)
=[(4.56'X3.83')+(5.00'X42.10')]/2=113.98 S.F.
D3 (CHASE)=2.00'X2.00'=4.00 S.F.

TOTAL DEDUCTION
= 113.98+113.98+4.00 = 231.96 S.F.

TOTAL 1ST FLOOR F.A.
(RESIDENTIAL U.G. 2)
536.13 - 231.96
= 304.17 S.F.

2ND FL. THRU 4TH FL. (RESIDENTIAL)



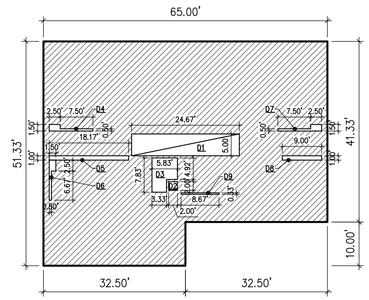
PROPOSED 2ND FLOOR THRU 4TH FLOOR F.A.
PER FLOOR AREA (RESIDENTIAL U.G. 2)
(65.00'X46.33')+(23.25'X5.00')+(23.25'X5.00')
= 3,243.95 S.F.

DEDUCTION
D1 (DENSITY CORRIDOR, 50% DEDUCTION)
(AS PER ZR 28-31)
=(5.00'X24.67')/2=61.68 S.F.
D2 (CHASE)=2.00'X2.00'=4.00 S.F.
D3(REFUSE ROOM)
(DEDUCT 12 S.F. AS PER ZR 28-12)
=12.00 S.F.
D4 (CHASE)=(2.50'X1.50')+(7.50'X0.50')=7.50 S.F.
D5 (CHASE)=18.17'X1.00'=18.17 S.F.
D6 (CHASE)=(2.50'X1.50')+(6.67'X0.50')=7.09 S.F.
D7 (CHASE)=(2.50'X1.50')+(7.50'X0.50')=7.50 S.F.
D8 (CHASE)=18.17'X1.00'=18.17 S.F.
D9 (CHASE)=(2.50'X1.50')+(6.67'X0.50')=7.09 S.F.

TOTAL DEDUCTION
= 61.68+4.00+12.00+7.50+18.17+7.09+7.50+18.17+7.09
= 143.20 S.F.

TOTAL 2ND FLOOR THRU 4TH FLOOR F.A.
PER FLOOR AREA (RESIDENTIAL U.G. 2)
3,243.95 - 143.20
= 3,100.75 S.F.

5TH FL. (RESIDENTIAL)



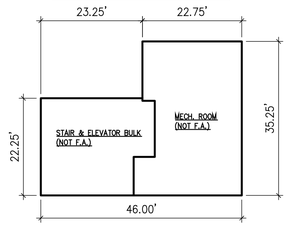
PROPOSED 5TH FLOOR F.A.
(RESIDENTIAL U.G. 2)
(65.00'X41.33')+(32.50'X10.00')
= 3,011.45 S.F.

DEDUCTION
D1 (DENSITY CORRIDOR, 50% DEDUCTION)
(AS PER ZR 28-31)
=(5.00'X24.67')/2=61.68 S.F.
D2 (CHASE)=2.00'X2.00'=4.00 S.F.
D3(REFUSE ROOM)
(DEDUCT 12 S.F. AS PER ZR 28-12)
=12.00 S.F.
D4 (CHASE)=(2.50'X1.50')+(7.50'X0.50')=7.50 S.F.
D5 (CHASE)=18.17'X1.00'=18.17 S.F.
D6 (CHASE)=(2.50'X1.50')+(6.67'X0.50')=7.09 S.F.
D7 (CHASE)=(2.50'X1.50')+(7.50'X0.50')=7.50 S.F.
D8 (CHASE)=9.00'X1.00'=9.00 S.F.
D9 (CHASE)=8.67'X0.33'=2.86 S.F.

TOTAL DEDUCTION
= 61.68+4.00+12.00+7.50+18.17+7.09+7.50+9.00+2.86
= 129.80 S.F.

TOTAL 5TH FLOOR F.A.
(RESIDENTIAL U.G. 2)
3,011.45 - 129.80
= 2,881.65 S.F.

BULKHEAD (RESIDENTIAL)



PROPOSED BULKHEAD FLOOR F.A.
(RESIDENTIAL U.G. 2) (NOT F.A.)
(23.25'X22.25')+(22.75'X35.25')
= 1,319.25 S.F.

LEGEND:
PROPOSED FLOOR AREA
NOT FLOOR AREA

TOTAL LOT AREA			= 8,000.00 S.F.
TOTAL COMMERCIAL AREA (U.G.6)	=	1ST FL.	= 3,424.53 S.F.
TOTAL RESIDENTIAL AREA (U.G. 2)	=	1ST FL. + 2ND FL. + 3RD FL. + 4TH FL. + 5TH FL. = 304.17 + 3,100.75 + 3,100.75 + 3,100.75 + 2,881.65	= 12,488.07 S.F.
TOTAL FLOOR AREA	=	COMMERCIAL + RESIDENTIAL = 3,424.53 + 12,488.07	= 15,912.60 S.F.

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

ZONING ANALYSIS BUILDING DIAGRAMS

REVISIONS

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Proj. No. 18-1665
Date 12-12-18
Scale AS NOTED
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DRAWING NUMBER

Z-002.00

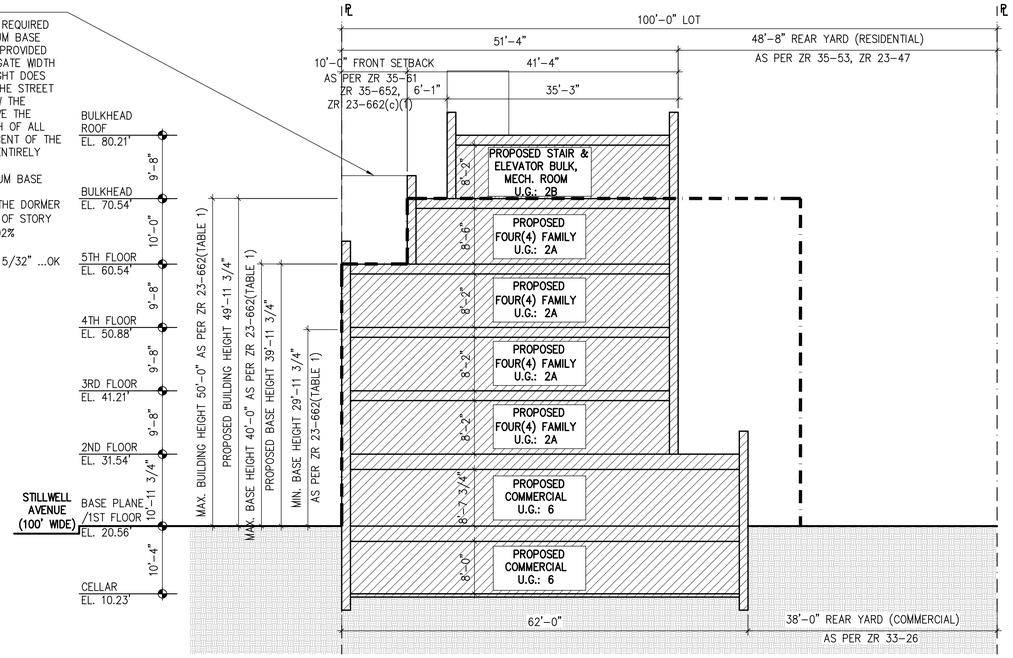
SHEET 2 OF 25

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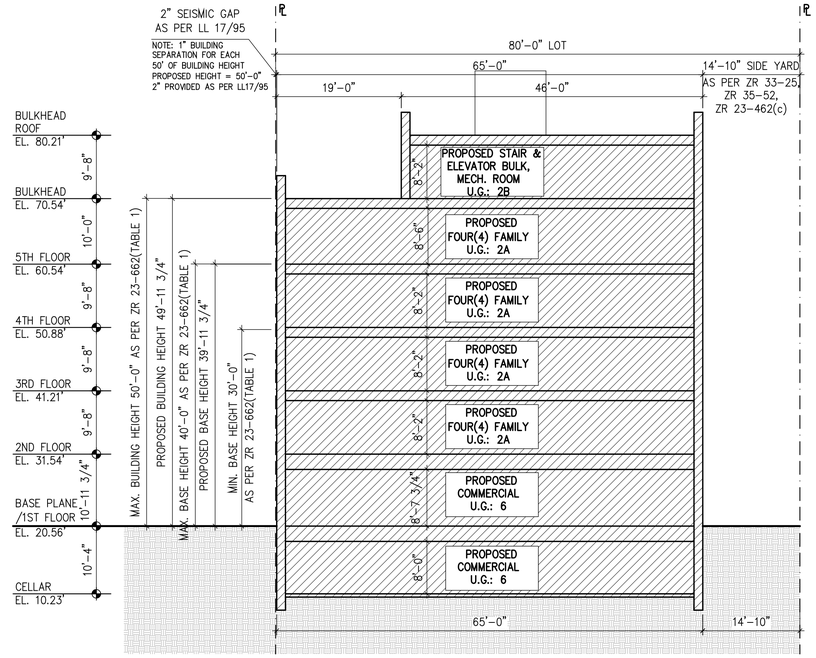
DOB STAMP

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AS PER ZR 23-621(c)(1)
FOR QUALITY HOUSING BUILDINGS, WITHIN THE REQUIRED FRONT SETBACK DISTANCE ABOVE THE MAXIMUM BASE HEIGHT, DORMER IS PERMITTED OBSTRUCTION, PROVIDED THAT ON ANY STREET FRONTAGE, THE AGGREGATE WIDTH OF ALL DORMERS AT THE MAXIMUM BASE HEIGHT DOES NOT EXCEED 60 PERCENT OF THE WIDTH OF THE STREET WALL OF THE HIGHEST STORY ENTIRELY BELOW THE MAXIMUM BASE HEIGHT. FOR EACH FOOT ABOVE THE MAXIMUM BASE HEIGHT, THE AGGREGATE WIDTH OF ALL DORMERS SHALL BE DECREASED BY ONE PERCENT OF THE STREET WALL WIDTH OF THE HIGHEST STORY ENTIRELY BELOW THE MAXIMUM BASE HEIGHT.
PROPOSED DORMER 9'-11 3/4" ABOVE MAXIMUM BASE HEIGHT.
THEREFORE, THE MAX. AGGREGATE WIDTH OF THE DORMER =60%-(9.98 X 1%) = 50.02% OF THE WIDTH OF STORY BELOW. MAX. DORMER WIDTH = 65'-0" X 50.02% = 32'-6 5/32"
PROPOSED DORMER WIDTH = 32'-6" < 32'-6 5/32" ...OK



PROPOSED A-A BUILDING DIAGRAM
SCALE: N.T.S.

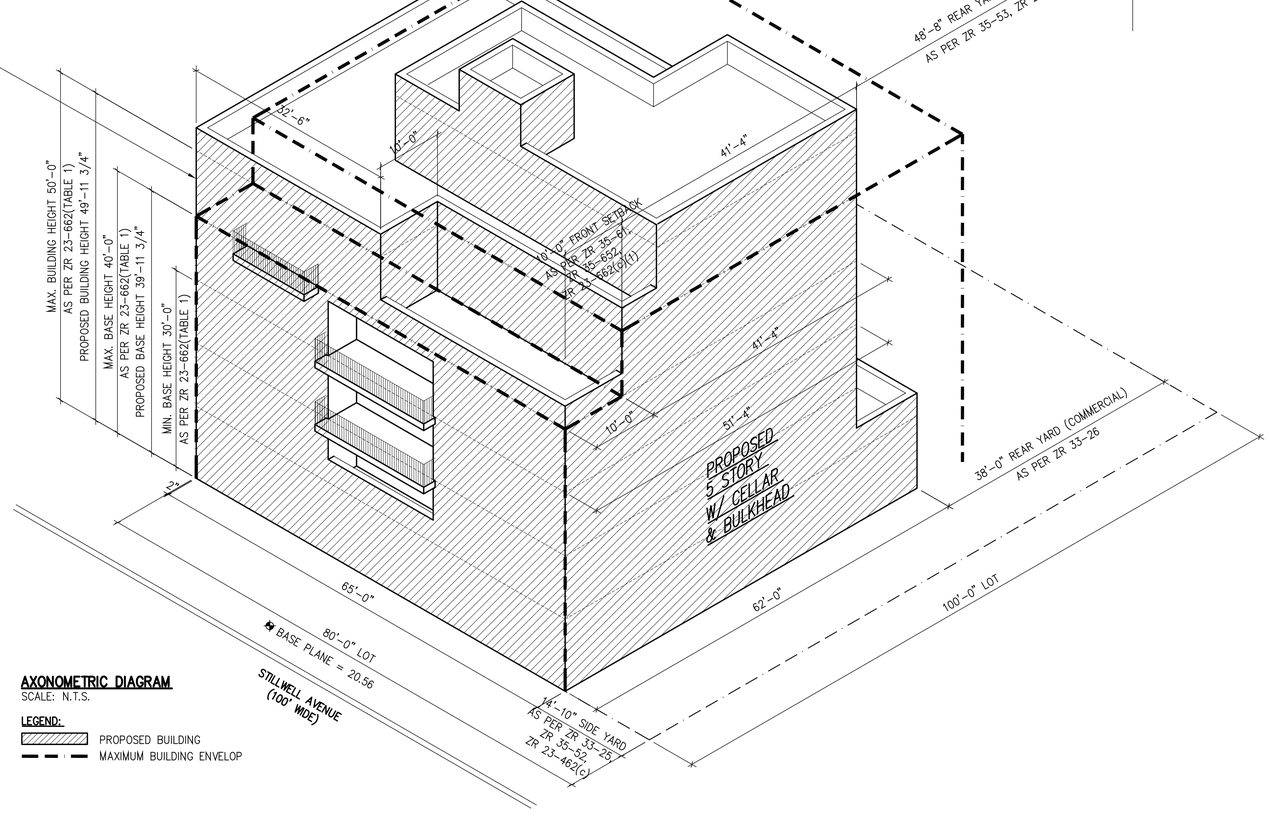


PROPOSED B-B BUILDING DIAGRAM
SCALE: N.T.S.

NOTE: BUILDING DIAGRAMS ARE DIAGRAMMATIC AND TO SHOW COMPLIANCE WITH ZONING REGULATIONS ONLY. NOT FOR CONSTRUCTION.

LEGEND:
PROPOSED BUILDING
MAXIMUM BUILDING ENVELOP

AS PER ZR 23-621(c)(1)
FOR QUALITY HOUSING BUILDINGS, WITHIN THE REQUIRED FRONT SETBACK DISTANCE ABOVE THE MAXIMUM BASE HEIGHT, DORMER IS PERMITTED OBSTRUCTION, PROVIDED THAT ON ANY STREET FRONTAGE, THE AGGREGATE WIDTH OF ALL DORMERS AT THE MAXIMUM BASE HEIGHT DOES NOT EXCEED 60 PERCENT OF THE WIDTH OF THE STREET WALL OF THE HIGHEST STORY ENTIRELY BELOW THE MAXIMUM BASE HEIGHT. FOR EACH FOOT ABOVE THE MAXIMUM BASE HEIGHT, THE AGGREGATE WIDTH OF ALL DORMERS SHALL BE DECREASED BY ONE PERCENT OF THE STREET WALL WIDTH OF THE HIGHEST STORY ENTIRELY BELOW THE MAXIMUM BASE HEIGHT.
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THEREFORE, THE MAX. AGGREGATE WIDTH OF THE DORMER =60%-(9.98 X 1%) = 50.02% OF THE WIDTH OF STORY BELOW. MAX. DORMER WIDTH = 65'-0" X 50.02% = 32'-6 5/32"
PROPOSED DORMER WIDTH = 32'-6" < 32'-6 5/32" ...OK



AXONOMETRIC DIAGRAM
SCALE: N.T.S.

LEGEND:
PROPOSED BUILDING
MAXIMUM BUILDING ENVELOP

DRAWING INDEX

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Z-002.00	ZONING CALCULATION	12-12-18	02
Z-003.00	BUILDING DIAGRAMS AND NOTES	12-12-18	03
G-001.00	GENERAL NOTES	12-12-18	04
G-002.00	GENERAL NOTES	12-12-18	05
G-003.00	GENERAL NOTES	12-12-18	06
A-101.00	PROPOSED CELLAR FLOOR PLAN	12-12-18	07
A-102.00	PROPOSED 1ST FLOOR PLAN	12-12-18	08
A-103.00	PROPOSED 2ND FLOOR PLAN	12-12-18	09
A-104.00	PROPOSED 3RD THRU 4TH FLOOR PLANS	12-12-18	10
A-005.00	PROPOSED 5TH FLOOR PLAN	12-12-18	11
A-106.00	PROPOSED ROOF PLANS	12-12-18	12
A-201.00	BUILDING ELEVATIONS	12-12-18	13
A-202.00	BUILDING ELEVATIONS	12-12-18	14
A-301.00	BUILDING SECTIONS	12-12-18	15
A-401.00	ADA DETAILS	12-12-18	16
A-402.00	DETAILS	12-12-18	17
A-501.00	DOOR AND WINDOW SCHEDULE	12-12-18	18
RCP-001.00	PROPOSED REFLECTIVE CEILING PLANS	12-12-18	19
RCP-002.00	PROPOSED REFLECTIVE CEILING PLANS	12-12-18	20
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Scale	AS NOTED
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SEAL

DRAWING NUMBER
Z-003.00
SHEET 3 OF 25

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SPECIAL AND PROGRESS INSPECTIONS

Y	N	TR1 SPECIAL INSPECTION ITEMS		CODE SECTION
X		STRUCTURAL STEEL – WELDING		BC 1704.3.1
X		STRUCTURAL STEEL – DETAILS		BC 1704.3.2
X		STRUCTURAL STEEL – HIGH STRENGTH BOLTING		BC 1704.3.3
	X	STRUCTURAL COLD – FORMED STEEL		BC 1704.3.4
X		CONCRETE – CAST–IN–PLACE		BC 1704.4
	X	CONCRETE – PRECAST		BC 1704.4
	X	CONCRETE – PRESTRESSED		BC 1704.4
X		MASONRY		BC 1704.5
	X	WOOD – INSTALLATION OF HIGH–LOAD DIAPHRAGMS		BC 1704.6.1
	X	WOOD – INSTALLATION OF METAL–PLATE–CONNECTED TRUSSES		BC 1704.6.2
	X	WOOD – INSTALLATION OF PREFABRICATED I–JOISTS		BC 1704.6.3
X		SUBGRADE INSPECTION		BC 1704.7.1
X		SUBGRADE CONDITIONS–FILL PLACEMENT & IN–PLACE DENSITY		BC 1704.7.2 BC 1704.7.3
X		SUBGRADE INVESTIGATIONS(BORINGS/TEST PITS)	TR4	BC 1704.7.4
	X	DEEP FOUNDATION ELEMENTS	TR5	BC 1704.8
	X	HELICAL PILES(BB # 2014–020)	TR5H	BC 1704.8.5
	X	VERTICAL MASONRY FOUNDATION ELEMENTS		BC 1704.9
	X	WALL PANELS,CURTAIN WALLS, AND VENEERS		BC 1704.10
	X	SPRAYED FIRE–RESISTANT MATERIALS		BC 1704.11
	X	MASTIC AND INTUMESCENT FIRE–RESISTANT COATINGS		BC 1704.12
	X	EXTERIOR INSULATION AND FINISH SYSTEMS(ELFS)		BC 1704.13
	X	ALTERNATIVE MATERIALS –OTCR BUILDINGS BULLETIN #_____		BC 1704.14
	X	SMOKE CONTROL SYSTEMS		BC 1704.15
X		MECHANICAL SYSTEMS		BC 1704.16
	X	FUEL–OIL STORAGE AND FUEL–OIL PIPING SYSTEMS		BC 1704.17
	X	HIGH–PRESSURE STEAM PIPING(WELDING)		BC 1704.18
	X	HIGH TEMPERATURE HOT WATER PIPING(WELDING)		BC 1704.18
	X	HIGH PRESSURE FUEL–GAS PIPING(WELDING)		BC 1704.19
	X	STRUCTURAL STABILITY–EXISTING BUILDINGS		BC 1704.20.1
X		EXCAVATIONS–SHEETING,SHORING,AND BRACING		BC 1704.20.2
	X	UNDERPINNING		BC 1704.20.3 BC 1814
	X	MECHAMICAL DEMOLITION		BC 1704.20.4
	X	RAISING AND MOVING OF A BUILDING		BC 1704.20.5
	X	SOIL PERCOLATION TEST–PRIVATE ON–SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS,AND DETENTION FACILITIES		BC 1704.21.1.2
	X	PRIVATE ON–SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS,AND DETENTION FACILITIES INSTALLATION		BC 1704.21.2
X		INDIVIDUAL ON–SITE PRIVATE SEWAGE DISPOSAL SYSTEMS INSTALLATION		BC 1704.22
X		SOIL PERCOLATION TEST–INDIVIDUAL ON–SITE PRIVATE SEWAGE DISPOSAL SYSTEMS		BC 1704.22
X		SPRINKLER SYSTEMS		BC 1704.23
	X	STANDPIPE SYSTEMS		BC 1704.24
X		HEATING SYSTEMS		BC 1704.25
X		CHIMNEYS		BC 1704.26
X		FIRE–RESISTANT PENETRATIONS AND JOINTS		BC 1704.27
	X	ALUMINUM WELDING		BC 1704.28
	X	FLOOD ZONE COMPLIANCE(ATTACH FEMA ELEVATION/DRY FLOODPROOFING CERTIFICATE WHERE APPLICABLE)		BC 1704.29 BC G105
	X	LUMINOUS EGRESS PATH MARKINGS	TR7	BC 1704.30 BC 1024.8
	X	EMERGENCY AND STANDBY POWER SYSTEMS(GENERATORS)		BC 1704.31
	X	POST–INSTALLED ANCHORS(BB# 2014–018,2014–019)		BC 1704.32
	X	SEISMIC ISOLATION SYSTEMS		BC 1707.8
X		CONCRETE DESIGN MIX	TR3	BC 1905.3 BC 1913.5
X		CONCRETE SAMPLING AND TESTING	TR2	BC 1905.6 BC 1913.10

PROGRESS INSPECTION ITEMS

		PRELIMINARY	28–116.2.1 BC 110.2
X		FOOTING AND FOUNDATION	BC 110.3.1
	X	LOWEST FLOOR ELEVATION	BC 110.3.2
	X	STRUCTURAL WOOD FRAME	BC 110.3.3
X		ENERGY CODE COMPLIANCE INSPECTIONS	TR8 BC 110.3.5
X		FIRE–RESISTANCE RATED CONSTRUCTION	BC 110.3.4
	X	PUBLIC ASSEMBLY EMERGENCY LIGHTING	28–116.2.2
	X	FINAL*	28–116.2.4.2,BC 110.5, DIRECTIVE 14 OF 1975,AND 1 RCNY §101–10

REPORT REQUIRED

Y	N	TR8 ENERGY CODE INSPECTION ITEMS	
X		PROTECTION OF EXPOSED FOUNDATION INSULATION	(IA1), (IIA1)
X		INSULATION PLACEMENT AND R VALUES	(IA2), (IIA2)
X		FENESTRATION U–FACTOR AND PRODUCT RATING	(IA3), (IIA3)
X		FENESTRATION AIR LEAKAGE	(IA4), (IIA4)
X		FENESTRATION AREAS	(IA5), (IIA5)
X		AIR SEALING AND INSULATION–VISUAL	(IA6), (IIA6)
	X	AIR SEALING AND INSULATION–TESTING	(IA7), (IIA7)
	X	LOADING DECK WEATHER SEALS	(IIA8)
	X	VESTLIBULES	(IIA9)
	X	FIREPLACES	(IB1), (IIB1)
X		SHUTOFF DAMPERS	(IB2), (IIB2)
X		HVAC AND SERVICE HEATING EQUIPMENT	(IB3), (IB3)
X		HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	(IB4), (IIB4)
X		HVAC INSULATION AND SEALING	(IB5), (IIB5)
	X	DUCT LEAKAGE TESTING	(IB6), (IIB6)
X		ELECTRICAL ENERGY CONSUMPTION	(IC1), (IIC1)
X		LIGHTING IN DWELLING UNITS	(IIC2)
X		INTERIOR LIGHTING POWER	(IC2), (IIC3)
X		EXTERIOR LIGHTING POWER	(IIC4)
X		LIGHTING CONTROLS	(IIC5)
	X	ELECTRICAL MOTORS	(IIC6)
X		MAINTENANCE INFORMATION	(ID1), (IID1)
	X	PERMANENT CERTIFICATE	(ID2)
	X	SOLAR READY REQUIREMENTS	(ID3)

REPORT REQUIRED

TABLE 601
FIRE–RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)

CONSTRUCTION ELEMENT		TYPE I–B RATING IN HRS.
PRIMARY STRUCTURAL FRAME		2[a]
BEARING WALLS	EXTERIOR	2
	INTERIOR	2[a]
NONBEARING WALLS AND PARTITIONS	EXTERIOR	SEE TABLE 602
	INTERIOR	0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS		2
ROOF CONSTRUCTION AND SECONDARY MEMBERS		2[b,c]

a. ROOF SUPPORTS: FIRE–RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE SUPPORTING A ROOF ONLY.
b. 1. EXCEPT IN GROUP F–1, H, M AND S–1 OCCUPANCIES, FIRE PROTECTION OF STRUCTURAL MEMBERS SHALL NOT BE REQUIRED, INCLUDING PROTECTION OF ROOF FRAMING AND DECKING WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 20 FEET OR MORE ABOVE ANY FLOOR IMMEDIATELY BELOW. FIRE–RETARDANT–TREATED WOOD MEMBERS SHALL BE ALLOWED TO BE USED FOR SUCH UNPROTECTED MEMBERS.
2. EXCEPT IN GROUP F OCCUPANCIES SUBJECT TO REGULATION UNDER SECTIONS 264(1) AND 264(2) OF THE NEW YORK STATE LABOR LAW, AND IN GROUP I–1, R–1, AND R–2 OCCUPANCIES, IN TYPES I AND II CONSTRUCTION, FIRE–RETARDANT–TREATED WOOD SHALL BE ALLOWED IN BUILDINGS INCLUDING GIRDERS AND TRUSSES AS PART OF THE ROOF CONSTRUCTION WHEN THE BUILDING IS:
I. TYPE II CONSTRUCTION OF ANY HEIGHT; OR
II. TYPE I CONSTRUCTION TWO STORIES OR LESS; OR WHEN OVER TWO STORIES, THE VERTICAL DISTANCE FROM THE UPPER FLOOR TO THE ROOF IS 20 FEET OR MORE.
c. EXCEPT IN GROUP F OCCUPANCIES SUBJECT TO REGULATION UNDER SECTIONS 264(1) AND 264(2) OF THE NEW YORK STATE LABOR LAW, AND IN GROUP I–1, R–1 AND R–2 OCCUPANCIES, HEAVY TIMBER SHALL BE ALLOWED WHERE A 1–HOUR OR LESS FIRE–RESISTANCE RATING IS REQUIRED.

TABLE 602
FIRE–RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASE ON FIRE SEPARATION DISTANCE

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP A,B,E,F–2,I,R,S–2,U
X < 5	ALL	1
5 ≤ X < 10	IA	1
	OTHERS	1
10 ≤ X < 30	IA, IB	1
	IIB, VB	0
	OTHERS	1
X ≥ 30	ALL	0

GENERAL NOTES

1. ALL WORKS SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODES.
2. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE. ANY DISCREPANCIES OR ERRORS IN THE DOCUMENTS MUST BE REPORTED TO THE ARCHITECT OR ENGINEER. NO CLAIMS FOR EXTRA COMPENSATION BASED ON IGNORANCE OF THE VISIBLE OR IMPLIED CONDITIONS WILL BE CONSIDERED. THE DRAWING ARE INTENDED TO BE A GUIDE TO THE WORK CONTRACTED BY THE CONTRACTOR.
3. CONTRACTOR IS TO FILE WORKER'S COMPENSATION AND TO SECURE ALL PERMITS AND SIGN– OFF.
4. THE ARCHITECT OR ENGINEER HAS NOT BEEN ENGAGED TO SUPERVISE THE WORK CONNECTED WITH THIS PLAN.
5. THE CONTRACTOR IS TO RETAIN A LICENSED PROFESSIONAL ENGINEER AS PART OF HIS CONTRACT ON BEHALF OF THE OWNER TO PERFORM ALL REQUIRED CONTROLLED INSPECTION WORK AS MAY BE REQUIRED.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE THE SAFETY AFFECTED BY THIS WORK.
7. THE CONTRACTOR SHALL NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. IF THERE IS A DISCREPANCY ON OR LACK OF DIMENSIONS, THE ARCHITECT SHALL BE NOTIFIED AND THE INFORMATION WILL BE PROVIDED.
8. THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED. AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICATION CODES.

BUILDING DEPARTMENT SET NOTES

1. ALL DRAWINGS AND SPECIFICATIONS SHOWN ARE SCHEMATICS. CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO EXECUTE ALL IMPLICIT AND EXPLICIT WORK AS INTENDED IN THE SCHEMATIC DOCUMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITIES TO DISCUSS THE FOLLOWING ITEMS LISTED BELOW WITH THE OWNER PRIOR TO CONTRACT. HOWEVER, THE ITEMS SHALL NOT LIMITED TO THE FOLLOWINGS: 1.METHODS OF CONSTRUCTION 2.CONSTRUCTION DETAILS 3.ALL ENCLOSED AND EXPOSED MATERIALS AND FINISHES.
3. ALL WORK SHALL BE EXECUTED ACCORDING TO ALL APPLICABLE GOVERNMENTAL REGULATIONS AND BUILDING INDUSTRY STANDARDS.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL ASPECTS OF CONSTRUCTION WITH SUBCONTRACTORS AND TO COMPLETE ALL WORKS AS PER THE INTENT OF THESE SCHEMATIC DRAWINGS.

TENANT SAFETY PLAN –2014 CODE: 28–104.8.4

1. THIS BUILDING DOES NOT CONTAIN ANY DWELLING UNIT THAT WILL BE OCCUPIED DURING CONSTRUCTION.
2. THE CONSTRUCTION WORK IS CONFINED TO THE ENTIRE BUILDING.
3. THERE WILL BE NOBODY OCCUPYING THE PROPOSED CONSTRUCTION AREA TO BE RENOVATED DURING THE COURSE OF CONSTRUCTION WORK.
4. OWNER SHALL NOTIFY THE DEPARTMENT 72 HOURS BEFORE COMMENCING WORKING IN CONNECTION WITH THIS TENANT PROTECTION PLAN.
5. EGRESS:
   - REQUIRED EGRESS SHALL NOT BE OBSTRUCTED AT ANY TIME. EGRESS AT EXISTING CORRIDORS, FIRE STAIRS, ETC. MUST BE MAINTAINED AT ALL TIMES.
   - ALL EXISTING MEANS OF EGRESS MAY NOT BE USED TO STORE MATERIAL, EQUIPMENT AND DEBRIS. TRANSPORTATION OF ALL MATERIALS, EQUIPMENT AND DEBRIS MUST BE COORDINATED WITH THE BUILDING SUPERINTENDENT.
6. FIRE SAFETY:
   - ALL BUILDING MATERIALS STORED AT CONSTRUCTION AREA, AND/OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND /OR GENERAL CONTRACTOR.
   - ALL MATERIALS TO BE STORED IN AN ORDERLY FASHION.
   - ALL FLAMMABLE MATERIALS TO BE USED AND STORED IN AN ADEQUATELY VENTILATED SPACE.
   - ALL FLAMMABLE MATERIALS TO BE KEPT TIGHTLY SEALED IN THEIR RESPECTIVE MANUFACTURERS CONTAINERS, SUCH MATERIALS ARE TO BE KEPT AWAY FROM HEAT.
   - ALL ELECTRICAL POWER TO BE SHUT OFF WHERE THERE IS EXPOSED CONDUIT.
   - ALL ELECTRICAL POWER IN THE CONSTRUCTION AREA TO SHUT OFF AFTER WORKING HOURS.
   - CONTRACTOR, AT ALL TIMES, TO MAKE SURE THERE IS NO LEAKS OF NATURAL GAS IN BUILDING, OR ANY FLAMMABLE GAS USED IN CONSTRUCTION.
7. HEALTH REQUIREMENTS:
   - THE GENERAL CONTRACTOR SHALL ENSURE THAT DUST IS CONTROLLED, AND THAT DISPOSAL OF CONSTRUCTION DEBRIS IS PERFORMED IN SUCH A MANNER AS TO NOT INTERFERE WITH OCCUPIED DWELLING UNITS. DEBRIS, DIRT AND DUST ARE TO BE KEPT TO A MINIMUM AND BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA, AND BE CLEANED UP AND CLEARED FROM THE BUILDING PERIODICALLY TO AVOID ANY EXCESSIVE ACCUMULATION.
   - ALL RENOVATIONS SHOULD COMPLY WITH LEAD RELATED LAWS AND REGULATIONS ACCORDANCE WITH THE U.S. ENVIRONMENTAL PROTECTION AGENCY.
8. COMPLIANCE WITH HOUSING STANDARDS:
   - PAINTING OF PUBLIC PARTS AND WITHIN DWELLING TO COMPLY WITH SEC. D28–12.01 H.M.C. AND SEC. 80 M.D.L.
   - PAINTING OF WINDOW FRAMES AND FIRE ESCAPES TO COMPLY WITH SEC. D28–12.03 H.M.C
   - CONSTRUCTION AREA SHALL BE MAINTAINED AND KEPT FREE OF RODENT AND INSECT INFESTATION DURING CONSTRUCTION AS PER SEC. D28–13.03 AND D26–13.05 H.M.C.
   - ALL NEARLY CREATED PARTITIONS IN HALLS TO BE FIRE RETARDED ON BOTH SIDES AND FIRESTOPPED AT TOP AND BOTTOM AS PER DEPT. RULES AND REGULATIONS, RULES 1.2.10 AND RULE 1.7.
9. STRUCTURAL SAFETY:
   - NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.
   - CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY BRACING AND SHORING WHEREVER ANY STRUCTURAL WORK IS INVOLVED. SUCH PROTECTION SHALL BE DESIGNED, INSPECTED AND FILED WITH DOB BY A QUALIFIED PROFESSIONAL ENGINEER.
   - ALL DEMOLITION OPERATIONS, REPAIR OPERATION AND ALTERATION OPERATION TO BE DONE ACCORDANCE WITH THE 2014 NYC BUILDING CODE, CHAPTER 33.
10. NOISE RESTRICTIONS:
   - THE GENERAL CONTRACTOR SHALL ENSURE THAT NOISE IS LIMITED TO ACCEPTABLE LEVELS IN ACCORDANCE WITH THE NEW YORK CITY NOISE CONTROL CODE.
   - CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS 9AM TO 5PM, MONDAYS THRU FRIDAYS, EXCEPT LEGAL HOLIDAYS; UNLESS AN AFTER–HOURS WORK PERMIT VARIANCE IS SECURED FROM THE DEPARTMENT OF BUILDINGS.

GENERAL NOTES FOR SMOKE AND CARBON MONOXIDE DETECTORS NOTE

1. ALL SMOKE AND CARBON MONOXIDE DETECTORS INSTALLED SHALL ADHERE TO LOCAL LAW 112 OF 2013.
2. SMOKE AND CARBON MONOXIDE DETECTORS COVER THE REQUIREMENTS FOR THE PROPER SELECTION, INSTALLATION, OPERATION AND MAINTENANCE OF FIRE WARNING EQUIPMENT FOR USE WITHIN THE DWELLING UNITS OR ROOMING UNITS.
3. THE INSTALLATION OF WRING AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE NEW YORK CITY ELECTRICAL CODES (HARD WIRED).
4. AS PER BC 907.2.11.3, WHERE MORE THAN ONE SMOKE ALARM OR DETECTOR IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT IN GROUP I–1, R–2, R–3, OR WITHIN AN INDIVIDUAL DWELLING UNIT OR SLEEPING UNIT IN GROUP R– 1, THE SMOKE ALARMS OR DETECTORS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM OR DETECTOR WILL ACTIVATE ALL OF THE ALARMS OR DETECTORS IN THE INDIVIDUAL UNIT. THE ALARM OR DETECTOR SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
5. AS PER BC 908.7.1.1.1, CARBON MONOXIDE ALARMS OR DETECTORS SHALL BE LOCATED WITHIN DWELLING UNITS AS FOLLOWS:
   5.1. OUTSIDE OF ANY ROOM USED FOR SLEEPING PURPOSES, WITHIN 15 FEET (4572 MM) OF THE ENTRANCE TO SUCH ROOM.
   5.2. IN ANY ROOM USED FOR SLEEPING PURPOSES.
   5.3. ON ANY STORY WITHIN A DWELLING UNIT, INCLUDING BELOW–GRADE STORIES AND PENTHOUSES OF ANY AREA, BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS.
6. EACH SMOKE DETECTOR SHALL HAVE AN INTEGRAL TEST TO PERMIT THE OCCUPANT TO CHECK THAT IT IS OPERATIONAL. A CONTINUOUS DISPLAY INDICATOR LIGHT IS RECOMMENDED.
7. A SMOKE DETECTOR INSTALLED TO PROTECT A SLEEPING AREA IN ACCORDANCE WITH THE CODE SHALL BE LOCATED OUTSIDE THE BEDROOM BUT IN THE IMMEDIATE VICINITY OF THE SLEEPING AREA, EXCEPT AS SET FOURTH FOR ROOMING UNITS.
8. SMOKE DETECTORS SHALL BE LOCATED ON OR NEAR THE CEILING, AND WITHIN FIFTEEN FEET OF ALL ROOMS USED FOR SLEEPING PURPOSES. IN ALL DWELLING UNITS WITH MULTIPLE LEVELS, WHEN ANY LEVEL HAS ONLY ONE MEANS OF EGRESS THE DWELLING UNIT SHALL BE PROVIDED WITH SMOKE DETECTORS ON ALL LEVELS.
9. IF CEILING MOUNTED, THE CLOSEST EDGE OF THE DETECTOR SHALL BE A MINIMUM OF FOUR INCHES FROM ANY WALL.
10. IF WALL MOUNTED, THE CLOSEST EDGE OF THE DETECTOR SHALL BE A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM THE CEILING.
11. AS PER BC 907.2.11.4, FOR GROUP R–2 OCCUPANCY, SMOKE ALARMS SHALL BE PROVIDED WITH THE CAPABILITY TO SUPPORT VISIBLE ALARM NOTIFICATION APPLIANCES IN ACCORDANCE WITH ICC/ANSI A117.1.
12. THE INSTALLATION OR WRONG AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE NYC ADMINISTRATIVE CODE.
13. THERE SHALL BE INSTALLED AT LEAST ONE APPROVED AND OPERATIONAL CARBON MONOXIDE DETECTING DEVICE WITHIN FIFTEEN FEET OF EACH ROOM LAWFULLY USED FOR SLEEPING PURPOSES, OR ONE PER EACH DWELLING UNIT. WHICHEVER MAY APPLY.
14. EACH INSTALLED DETECTOR MUST BE EQUIPPED WITH AN END–OF–LIFE ALARM.
15. KEEP, AND PROVIDE UPON REQUEST, RECORDS RELATING TO THE INSTALLATION AND MAINTENANCE OF:
   15.1. SMOKE DETECTORS (PROVIDE TO HPD). RECORDKEEPING REQUIREMENTS ARE CONTAINED IN SECTIONS 12–01 AND 12–03 OF TITLE 28 OF THE RULES OF THE CITY OF NEW YORK.
   15.2. CARBON MONOXIDE DETECTORS (PROVIDE TO HPD, DOB, DOHMH OR FDNY). RECORDKEEPING REQUIREMENTS ARE CONTAINED IN SECTIONS 12–06 AND 12–09 OF CHAPTER 12 OF TITLE 28 OF THE RULES OF THE CITY OF NEW YORK.
16. THE CARBON MONOXIDE DETECTING DEVICE SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR AND BE REPLACED IN CASE SUCH DEVICE IS STOLEN, REMOVED, MISSING OR RENDERED INOPERABLE.
17. IT SHALL BE UNLAWFUL FOR ANY PERSON TO TAMPER WITH OR RENDER INOPERABLE CARBON MONOXIDE DETECTING DEVICE. EXCEPT FOR REPLACING THE BATTERIES OR FOR OTHER MAINTENANCE PURPOSES.
18. NEVER PAINT OVER DETECTORS.

MULTIPLE DWELLING NOTES

1. DOORS LEADING TO BATHROOMS TO HAVE CLEAR SPACE BETWEEN BOTTOM OF DOORS AND SADDLES.
2. ALL COMBUSTIBLES UNDER AND WITHIN 1'–0" OF GAS RANGED TO BE FIRE RETARDED WITH 26 GAUGE METAL. MAINTAIN 3'–0" MIN. CLEARANCE ABOVE RANGES. PROTECT UNDERSIDE OF CABINETS OVER RANGES IN LIKE MANOR.
3. KITCHENETTE WALLS AND CEILINGS TO BE FIRE RETARDED WITH %%241" THICK SHEETROCK, TYPE 'X', UNLESS OTHERWISE NOTED.
4. NEW KITCHENETTE VENT DUCT TO BE A MINIMUM 8" WIDTH OF 18 GAUGE METAL, FIRE RETARDED WITH 2 LAYERS 5/8" SHEETROCK TYPE 'X' FOR ENTIRE RUN. PROVIDED GRAVITY DAMPERS REGISTERS, FUSIBLE LINKS AND FAN PROVIDING AT LEAST 6 CHANGES OF AIR PER HOUR, 180 CFM PER KITCHENETTE. FAN TO BE CONNECTED TO LIGHT SWITCH. DUCT TO EXTEND 4'–0" ABOVE ROOF. FAN ON ROOF TO RUN CONTINUOUSLY.
5. ALL FIRE DAMPERS ARE TO BE APPROVED BY THE BOARD OF STANDARDS AND APPEALS.
6. NEW PUBLIC HALL PARTITIONS SHALL BE FIRE RETARDED WITH 5/8" THICK SHEETROCK TYPE 'X' ON BOTH SIDES AND PROPERLY FIRE STOPPED.
7. ALL DOORS LEADING TO PUBLIC HALLS TO BE SELF CLOSING.
8. SKYLIGHT OVER PUBLIC HALLS TO HAVE AT LEAST 20 SQ. FT. OF PLAIN GLASS WITH 144 SQUARE INCHES OF FIXED RIDGE VENTS, WIRE SCREEN OVER AND UNDER (OR 9 SQUARE FEET WITH 40 SQUARE INCH FIXED RIDGE VENT, AS PER PLAN).
9. ALL WINDOW SIZES GIVEN ARE B.S.B. ALL WINDOWS ARE DOUBLE HUNG (OR AS PER PLAN).
10. ALL MASONRY WORK TO BE LAID IN TYPE S OR N MORTAR.
11. ALL BATHROOMS TO HAVE TILE FLOOR AND MINIMUM 6" TILE BASE & WALLS.
12. BUILDING TO COMPLY WITH SEC. 64 M.D.L. GAS METERS, GAS APPLIANCES, AND ARTIFICIAL LIGHTING.
13. DRAINS FOR AREAWAY, YARD AND ROOF TO COMPLY WITH SEC.77 M.D.L.
14. THERE ARE NO TRANSOMS IN THE BUILDING. REFER TO DRAWINGS FOR OTHER APPLICABLE NOTES.
15. PEEPHOLES OR DOOR INTERVIEWERS, APPROVED AS PER BOARD OF STANDARDS AND APPEALS, TO BE PROVIDED IN ENTRANCE DOOR TO EACH HOUSING UNITS AS PER SEC. 51.
16. M.D.L. TWO LIGHTS, MINIMUM 50 WATTS, ONE EACH SIDE OF ENTRANCE WAY TO BE PROVIDEDAS PER SEC. 35 M.D.L. AND DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY AND BUILDING DEPARTMENT RULES AND REGULATIONS.
17. PROPER AND ADEQUATE LIGHTING WITH A MINIMUM OF 40 WATTS TO BE PROVIDED IN YARDS AND COURTS AS PER SEC. 26 SUB DIV. 7A, AND DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY AND BUILDING DEPARTMENT RULES AND REGULATIONS.
18. EVERY VESTIBULE, ENTRANCE, PUBLIC AND STAIR HALL TO BE PROVIDED WITH MINIMUM OF 60 WATT LIGHTS AS PER SEC. 37, SUB DIV. 1, M.D.L.

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

GENERAL NOTES

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

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Proj. No.	18–1665
Date	12–12–18
Scale	AS NOTED
Drawn	

SEAL

DRAWING NUMBER

G-001.00

SHEET 4 OF 25

Orient and affix BIS job number label here.

DOB STAMP

PRELIMINARY,
FOR INFORMATION ONLY
NOT FOR CONSTRUCTION

GENERAL STRUCTURE NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
2. THE LATEST EDITION OF THE NEW YORK CITY BUILDING CODE (2014), AND APPLICABLE EDITIONS OF THE FOLLOWING CODES AND STANDARDS SHALL APPLY:
   A. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES – AISC.
   B. ANSI/AISC 360–89 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN.
   C. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE – ACI 318
   D. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES – ACI 530, ALLOWABLE STRESS DESIGN
   E. SPECIFICATIONS FOR MASONRY STRUCTURES – ACI 530.1
   IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
3. FIELD MEASUREMENTS SHALL BE TAKEN AT THE SITE BY THE CONTRACTOR TO VERIFY AND SUPPLEMENT ALL DIMENSIONS AND ADDITIONS AFFECTED BY EXISTING WORK OR NEW WORK THAT HAS ALREADY BEEN INSTALLED. ANY DISCREPANCIES FROM THE INFORMATION SHOWN ON PLANS SHALL BE REPORTED TO AND COORDINATED WITH THE ARCHITECT.
4. BEFORE COMMENCEMENT OF ANY WORK AND/OR FABRICATION, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR HIS APPROVAL CONCRETE MIX DESIGNS FOR EACH TYPE OF CONCRETE TO BE USED, MILL REPORTS FOR STEEL, STRUCTURAL PENETRATIONS AND SHOP DRAWINGS FOR ALL STRUCTURAL TRADES AND OTHER DOCUMENTS AS REQUIRED PER PROJECT SPECIFICATIONS.
5. SUBMIT SHOP DRAWINGS SHOWING REINFORCEMENT PROPERLY POSITIONED IN CONCRETE WORK. (SEE SPECIFICATIONS)
6. THE CONTRACTOR SHALL ADEQUATELY PROTECT (BRACE, SHORE, SUPPORT, ETC.) THE STRUCTURE DURING THE ENTIRE CONSTRUCTION PERIOD. SUCH PROTECTION SHALL BE DESIGNED, INSPECTED AND FILED WITH DOB BY A QUALIFIED PROFESSIONAL ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOF, FLOOR AND WALL PENETRATIONS, PATCHING, REPAIRING AND FLASHING AS REQUIRED.
8. UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER'S REPORT, SLABS ON GRADE SHALL BE SUPPORTED BY A COMPACTED POROUS FILL AT LEAST 6 INCHES THICK. AT INTERIOR SLABS A VAPOR BARRIER AT LEAST 15 MILS THICK SHALL BE PLACED BETWEEN THE SLAB AND THE POROUS FILL. THE POROUS FILL SHALL, IN TURN, BE SUPPORTED BY EITHER CLEAN, INORGANIC ORIGINAL SOIL OR A COMPACTED FILL WITH A MODIFIED PROCTOR DENSITY OF 90.

UNDERPINNING AND SUPPORT OF EXCAVATION:

UNDERPINNING AND SUPPORT OF EXCAVATION, (SHEETING, SHORING, BRACING ETC.) HAS BEEN DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER. REFER TO SOE DRAWINGS FOR BALANCE OF NOTES AND INFORMATION.

CAST–IN–PLACE CONCRETE NOTES:

1. CONCRETE TYPES
   A. SIDEWALKS – 4,000 PSI AIR ENTRAINED STONE CONCRETE.
   B. SLABS ON GRADE (OTHER THAN SIDEWALKS) – 4,000 PSI STONE CONCRETE.
   C. CONCRETE PLACED ON METAL DECK – 3000 PSI LIGHT WEIGHT CONCRETE.
   D. NON–STRUCTURAL FILL – 3000 PSI LIGHTWEIGHT CONCRETE.
   E. ALL OTHER CONCRETE – 4,000 PSI STONE CONCRETE.
2. BAR REINFORCEMENT SHALL CONFORM TO ASTM A–615, GRADE 60 UNLESS HIGHER GRADE IS INDICATED ON DRAWINGS.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A–185 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 70,000 PSI.
4. CONCRETE SHALL BE CAST MONOUTHICALLY EXCEPT WHERE OTHERWISE SHOWN.
5. REINFORCEMENT MARKED 'CONT." (CONTINUOUS) SHALL BE LAPPED A PROPER DISTANCE AT SPLICES AND CORNERS AND SHALL BE HOOKED OR EXTENDED A PROPER DISTANCE AT NON–CONTINUOUS ENDS AS PER SPLICE AND DEVELOPMENT LENGTH REQUIREMENTS SHOWN ON THE DRAWINGS. ALL HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS.
6. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS AT POINTS OF MINIMUM SHEAR.
7. SPLICES FOR MAIN REINFORCEMENT IN SHEAR WALLS SHALL BE TENSION SPLICES UNLESS OTHERWISE NOTED.
8. REINFORCING BARS SHALL HAVE THE FOLLOWING CONCRETE PROTECTION:

CONCRETE CAST AGAINST EARTH	–	3"
EXPOSED TO EARTH OR WEATHER	–	2"
SLABS AND WALLS NOT EXPOSED	–	3/4" OR BAR DIAMETER
SLABS IN PARKING AREAS	–	2"TOP BARS ONLY
BEAMS AND GIRDERS NOT EXPOSED	–	1–1/2" TO STIRRUPS
COLUMNS NOT EXPOSED	–	1–1/2" TO TIES

9. MAXIMUM LENGTH OF CONCRETE POUR (DISTANCE BETWEEN CONSTRUCTION JOINTS) SHALL BE 50 FEET DURING JUNE, JULY, AUGUST AND SEPTEMBER AND 75 FEET DURING THE REST OF THE YEAR. LOCATION OF CONSTRUCTION JOINTS, IF REQUIRED, SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
10. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ANCHOR BOLTS, ETC. AS REQUIRED BY TRADES BEFORE CONCRETE IS POURED.
11. THE CONTRACTOR SHALL PROVIDE SLAB BOLSTERS, HIGH CHAIRS AND ALL ACCESSORIES REQUIRED FOR PROPER PLACEMENT OF REINFORCING BARS AND WIRE MESH AS PER A.C.I. & C.R.S.I. STANDARDS.
12. CONCRETE MAY BE CONVEYED BY PUMPING. PUMPING METHODS SHALL COMPLY WITH REQUIREMENTS ESTABLISHED BY A.C.I. COMMITTEE 304, PLACING CONCRETE PUMPING METHODS.
13. PRIOR TO PLACING CONCRETE, ALL REINFORCEMENT SHALL BE FREE OF LOOSE FLAKY RUST, MUD, OIL OR OTHER COATING THAT WILL DESTROY, REDUCE OR HAMPER FULL BOND CAPACITY.
14. REINFORCEMENT IN EXPOSED AREAS INCLUDING BUT NOT LIMITED TO BALCONIES, CONCRETE EYEBROWS AND ROOF PARKING DECKS SHALL BE EPOXY COATED IN CONFORMANCE WITH ASTM A–175
15. CONTROL AND EXPANSION JOINTS SHALL BE PROVIDED TO MINIMIZE CRACKING AS PER ARCHITECTURAL AS WELL AS STRUCTURAL REQUIREMENTS AND IN ACCORDANCE WITH STANDARD PRACTICES ACCEPTED IN THE INDUSTRY.
16. THE FOLLOWING CRITERIA SHALL BE MET WITH REGARDS TO PLACEMENT OF CONDUITS, PIPES, ETC. IN CONCRETE SLABS.
   A. ALL CONDUITS SHALL BE CENTERED AT MID–DEPTH OF SLAB. CONDUIT DIAMETER SHALL NOT EXCEED 1/3 OF SLAB THICKNESS. CLEAR DISTANCE BETWEEN TWO ADJACENT CONDUITS SHALL BE A MINIMUM OF 3 DIAMETERS OF LARGER OF THE TWO CONDUITS.
   B. VERTICAL SLEEVES, PIPES, ETC. THROUGH SLAB EITHER CLUSTERED OR INDIVIDUAL, SHALL NOT INTERRUPT MORE THAN 1/8 OF THE WIDTH OF COLUMN STRIP.
   C. NO REINFORCEMENT BARS SHALL BE CUT, BENT, SHIFTED OR OTHERWISE ALTERED AS CONDUITS, PIPES, ETC. AS COMPARED TO WHAT IS SHOWN ON THESE DRAWINGS.
   D. ANY DEVIATIONS FROM ABOVE REQUIREMENTS SHALL BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED FOR APPROVAL BY THIS OFFICE.

MASONRY NOTES:

1. UNLESS OTHERWISE NOTED, MASONRY WALL CONSTRUCTION SHOWN ON STRUCTURAL DRAWINGS SHALL CONFORM TO THE FOLLOWING:
   A. UNITS SHALL BE LIGHTWEIGHT AGGREGATE CONCRETE HOLLOW UNITS AT LEAST 55% SOLID [ENGINEER CAN USE 75% SOLID IF REINF. ALLOWS) CONFORMING TO ASTM C–90, GRADE N1, WITH COMPRESSIVE STRENGTHS AS FOLLOWS:
   1ST TO ROOF FLOORS – 2,800 PSI (3.050PSI) F'M = 2.000PSI
   B. MORTAR SHALL BE TYPE S, TYPE M, (TYPE N) IN CONFORMANCE WITH ASTM C270.
   C. GROUT SHALL HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 2800 PSI CONFORMING TO ASTM C476.
2. GROUT SOLID ALL CELLS CONTAINING VERTICAL REINFORCEMENT BARS.
3. ALL VERTICAL REINFORCEMENT BARS SHALL BE CENTERED IN THE CELL IN BOTH DIRECTIONS UNLESS OTHERWISE NOTED.
4. REINFORCE MASONRY WALLS HORIZONTALLY @ 16" O.C. WITH STANDARD TWO WIRE MASONRY WALL REINFORCEMENT, 9 GAGE RODS.
5. THE FOLLOWING SHALL BE PROVIDED IN PARAPET WALLS:
   A. ALL CELLS AND ALL JOINTS IN SOLID, CAVITY OR MASONRY BONDED HOLLOW WALL CONSTRUCTION SHALL BE FILLED SOLID WITH GROUT AND MORTAR.
   B. HORIZONTAL WIRE REINFORCEMENT SHALL BE PROVIDED AT VERTICAL INTERVALS NOT GREATER THAN 12".
   C. HORIZONTAL REINFORCEMENT SHALL EXTEND AROUND THE CORNER FOR AT LEAST 4 FT. IN BOTH DIRECTIONS AND SPLICES SHALL BE LAPPED AT LEAST 6".
   D. NONREINFORCED PARAPET WALLS SHALL BE NOT LESS THAN 8" IN THICKNESS AND THEIR HEIGHT SHALL NOT EXCEED THREE TIMES THEIR THICKNESS.
6. HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH CORNERS, INTERSECTION, AND PILASTERS IN BRICK AND C.M.U.
7. BONDING OF MASONRY UNITS SHALL BE CONTINUED THROUGH CORNERS, INTERSECTIONS, AND PILASTERS IN BRICK AND C.M.U.
8. VERTICAL REINFORCEMENT CONSISTING OF 1 – #4 SHALL BE PROVIDED AT BOTH SIDES OF ALL OPENINGS FULL HEIGHT OF WALL UNLESS OTHERWISE NOTED (UON).
9. IN ADDITION TO REINFORCEMENT SHOWN ON PLAN, PROVIDE ADDITIONAL 1–#4 VERTICAL REINFORCEMENT FROM FLOOR TO FLOOR AT:
   A. EACH CORNER OF WALL.
   B. ALL ENDS OF WALLS.
   C. NEXT TO EXPANSION JOINTS
10. 1 – #4 CONTINUOUS REINFORCEMENT SHALL BE PLACED AT TOP AND BOTTOM OF ALL WALL OPENINGS AND SHALL EXTEND 24" MINIMUM OR 40 BAR DIAMETERS PAST EACH SIDE OF THE OPENINGS.
11. 1 – #4 HORIZONTAL REINFORCEMENT SHALL BE PLACED CONTINUOUSLY AT THE TOP OF ALL C.M.U. WALLS AT EACH FLOOR, ROOF AND PARAPET WALL.
12. WALLS SHALL BE LAID UP TO A HEIGHT NOT TO EXCEED 4–8". PLACE REINFORCEMENT BARS AND EXTEND THEM A SPLICE LENGTH ABOVE LIFT. LEVEL OF GROUT TO BE KEPT 1 1/2" FROM TOP OF MASONRY FORMING A GROUT KEY.
13. OPENINGS FOR ROUND DUCTS, PIPING AND ELECTRICAL CONDUIT BETWEEN 4 AND 12 INCHES IN DIAMETER SHALL BE SLEEVED WITH SCHEDULE 40 STEEL PIPE. NO OPENING SHALL BE IN PLACED REINFORCED GROUTED CELLS.
14. GROUT SOLID TOP TWO COURSES OF C.M.U DIRECTLY UNDER BEARING POINTS, UNLESS OTHERWISE SHOWN.
15. HORIZONTAL AND VERTICAL CONTROL AND EXPANSION JOINTS IN FACE BRICK SHALL BE LOCATED AS PER ARCHITECTURAL DRAWINGS.
16. EXPOSED STEEL, STEEL LINTELS OR STEEL WITHIN 4" OF WEATHERING FACE OF MASONRY SHALL BE GALVANIZED.
17. ALL LINTELS SHALL BEAR 8" AT EACH JAMB, UNLESS OTHERWISE INDICATED. FULL CONTACT BETWEEN LINTEL AND SUPPORTING MASONRY SHALL BE PROVIDED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED (UON) :
   A. WIDE FLANGE AND TEE SHAPES – ASTM A992 GRADE 50
   B. CHANNELS, S SHAPES, ANGLES, PLATES AND BARS – ASTM A36
   C. ROUND HSS SHAPES – ASTM A53 GRADE B
   D. ASDAS
2. SHOP CONNECTIONS SHALL BE WELDED OR BOLTED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFICALLY SHOWN OTHERWISE ON STRUCTURAL DRAWINGS.
3. UNLESS OTHERWISE NOTED, ALL BOLTING SHALL CONFORM TO THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, LATEST EDITION. A307 BOLTS SHALL BE PERMITTED IF SPECIFICALLY APPROVED BY THE ENGINEER.
4. UNLESS OTHERWISE NOTED, BOLTED CONNECTIONS SHALL UTILIZE ASTM A325 OR A490 BOLTS. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS. CONNECTIONS SHALL BE SLIP CRITICAL UON.
5. ALL WELDING ELECTRODES SHALL BE LOW HYDROGEN, AS REQUIRED BY AWS STRUCTURAL WELDING CODE AND CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" TO SATISFY BASE–TO–FILLER METAL COMBINATION CRITERIA. ALL FILLER METAL SHALL HAVE A MINIMUM CVN TOUGHNESS OF 20 FT. LBS. AT MINUS 20 DEGREES F.
6. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION, LATEST EDITION. WELDER CERTIFICATES SHALL BE SUBMITTED TO KCE BEFORE COMMENCEMENT OF WORK.
7. MINIMUM SIZE OF FILLET WELDS SHALL BE 1/4" MIN. FOR FIELD WELDS AND AS REQUIRED PER AISC SPECIFICATION RELATIVE TO BASE METAL THICKNESS FOR SHOP WELDS.
8. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN AND AISC CODE OF STANDARD PRACTICE, LATEST EDITIONS.
9. CONNECTIONS OF ALL BEAMS AND GIRDERS SHALL BE DESIGNED FOR REACTIONS INDICATED ON STRUCTURAL DRAWINGS. ALL OTHER CONNECTIONS SHALL BE DESIGNED FOR THE FULL CAPACITY OF THE MEMBERS UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
10. KNIFE CONNECTIONS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY REQUESTED BY A CONTRACTOR AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO SHOP DRAWING APPROVAL. CONTRACTOR'S BIDS SHALL BE SUBMITTED BASED ON THE KNIFE CONNECTIONS NOT ALLOWED. SPECIFIC KNIFE CONNECTION DETAILS SHALL BE SUBMITTED FOR APPROVAL AT THE TIME WHEN TYPICAL DETAILS AND ERECTION PLANS ARE SUBMITTED. THE DETAILS SHALL BE ACCOMPANIED BY CALCULATIONS SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE PROJECT IS TO BE BUILT. CALCULATIONS SHALL DEMONSTRATE THAT THE WELDS ARE NOT OVERSTRESSED DUE TO SECONDARY STRESSES DUE TO BOLT TIGHTENING, PRYING ACTION, ETC.
11. INSPECTION AND TESTING OF WELDS AND BOLTS SHALL BE AS FOLLOWS:
   A. A TESTING AGENCY ACCEPTABLE TO THE ENGINEER OF RECORD SHALL BE EMPLOYED BY THE OWNER TO PERFORM ALL SHOP AND FIELD INSPECTIONS AND TESTING OUTLINED BELOW.
   B. ALL WORK SHALL BE SCHEDULED BY THE CONTRACTOR TO ALLOW THE BELOW SHOP AND FIELD TESTING TO BE COMPLETED:
   C. ALL WELDS SHALL BE VISUALLY INSPECTED. FIFTEEN (15) PERCENT OF RANDOMLY SELECTED FILLET, PLUG AND SLOT WELDS SHALL BE MEASURED.
   D. FIFTEEN (15) PERCENT OF RANDOMLY SELECTED FILLET WELDS IN BEAM AND GIRDER SHEAR CONNECTION PLATES, ANGLES, ETC. SHALL BE CHECKED BY MAGNETIC PARTICLE METHOD. ONLY THE FINAL PASS SHALL BE CHECKED.
   E. ULTRASONICALLY TEST 100 PERCENT OF ALL FULL AND PARTIAL PENETRATION WELDS. WELD PREPARATION OF 100 PERCENT OF WELDS SHALL BE INSPECTED.
   F. ALL BOLTS SHALL BE VISUALLY INSPECTED.
   G. ALL SLIP CRITICAL BOLTS SHALL BE CHECKED FOR PROPER TENSIONING USING THE DIRECT TENSION INDICATOR METHOD. MEASURE WITH FEELER GAGES AT LEAST 15% OF BOLTS IN EACH CONNECTION, BUT NOT LESS THAN TWO BOLTS PER CONNECTION.
   H. A MINIMUM OF 15 PERCENT OF BOLTS, BUT NOT LESS THAN TWO BOLTS IN EACH BEARING TYPE CONNECTION SHALL BE CHECKED FOR PROPER TENSIONING USING THE CALIBRATED TORQUE WRENCH METHOD.
   I. IN CASE MULTIPLE DEFECTS HAVE BEEN DETECTED, THE ABOVE EXTENT OF INSPECTION SHALL BE INCREASED AT DISCRETION OF STRUCTURAL ENGINEER OF RECORD.
12. SUBMITTALS
   A. SEE SUBMITTAL NOTES FOR GENERAL REQUIREMENTS.
   B. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, FOR REVIEW, ENGINEERED SHOP AND ERECTION DRAWINGS SHOWING SHOP FABRICATION DETAILS FOR EACH PIECE OF STEEL, FIELD ASSEMBLY DETAILS AND ERECTION PLANS FOR ALL STEEL.
   C. SHOP DRAWINGS SHOWING PIECE DETAILS SHALL NOT BE SUBMITTED PRIOR TO APPROVAL OF ERECTION DRAWINGS AND RELATED CONNECTION DETAILS, DIAGRAMS, SCHEDULES, ETC.
13. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, ALL CONNECTIONS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF NEW YORK, HIRED BY THE CONTRACTOR. CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF THIS ENGINEER AND SHALL BE SUBMITTED FOR REVIEW BY STRUCTURAL ENGINEER OF RECORD, IF REQUESTED.
14. DETAILING SHALL BE PERFORMED USING APPROPRIATE ENGINEERING DESIGN PRINCIPLES AND ACCEPTED INDUSTRY STANDARDS, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DETAILER SHALL BE AWARE THAT THE DETAILS AND SECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE CONCEPTUAL ONLY AND DO NOT INDICATE THE NUMBER OF BOLTS, WELD SIZES, AND OTHER INFORMATION REQUIRED TO BE SHOWN ON THE SHOP DRAWINGS, UNLESS SPECIFICALLY NOTED.
15. ALL STAIR AND OTHER MISCELLANEOUS STEEL STRUCTURES SHALL BE DESIGNED AND DETAILED BY AN ENGINEER EMPLOYED BY THE CONTRACTOR. DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK AND SHALL BE SUBMITTED FOR REVIEW BY STRUCTURAL ENGINEER OF RECORD.
16. EXISTING STRUCTURAL STEEL SHALL BE REMOVED ONLY WITH ARCHITECTS (OR HIS REPRESENTATIVE) APPROVAL. NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES OR FOR ANY OTHER REASON SHALL BE PERMITTED UNLESS APPROVED BY THE ARCHITECT OR BY THE ARCHITECTS REPRESENTATIVE.
17. NO STRUCTURAL STEEL TO RECEIVE FIREPROOFING SHALL BE PAINTED. ALL STEEL SHALL BE CLEANED IN THE FIELD OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS PRIOR TO THE APPLICATION OF FIREPROOFING.
18. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT–DIPPED GALVANIZED. THIS INCLUDES ALL STEEL LINTELS, RELIEVING ANGLES, HANGERS, ETC.
19. ALL BEAMS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP.
20. SHEAR STUDS SHALL BE HEADED SHEAR CONNECTORS AS MANUFACTURED AND INSTALLED BY NELSON STUD WELDING. SHEAR STUD INSTALLATION SHALL BE INSPECTED BY AN APPROVED TESTING AGENCY IN OWNER'S DIRECT EMPLOY. THREE (3) BEND TESTS SHALL BE PERFORMED AT THE BEGINNING OF CONSTRUCTION. AFTERWARDS, 20 PERCENT (MINIMUM) OF SHEAR STUDS SHALL BE INSPECTED BY RING TEST AND MEASURED. ALL STUD WELDING SHALL BE INSPECTED VISUALLY.

POST INSTALLED ANCHORS

1. ANCHOR CAPACITY SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE ANCHOR MANUFACTURER OR OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD (ENGINEER).
2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS SHALL BE EVALUATED BY THEIR HAVING AN INTERNATIONAL CODE COUNCIL EVALUATION SERVICE REPORT (ICC ESR) SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION SHALL CONSIDER EFFECTS OF CREEP, IN–SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
3. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER INSTRUCTIONS INCLUDED IN THE ANCHOR PACKAGING.
4. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFI SYSTEM OR OTHER MANUFACTURER'S EQUAL OR BETTER SYSTEM, IF APPROVED BY THE ENGINEER IN ADVANCE.
5. THE CONTRACTOR SHALL ARRANGE ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE ENGINEER MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF THEIR INSTALLATION.
6. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO THE EDGE OF CONCRETE. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH SPACING AND EDGE DISTANCES INDICATED ON THE STRUCTURAL DRAWINGS.
7. REINFORCING BARS OR OTHER ELEMENTS EMBEDED IN THE EXISTING CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS, ETC. CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE EMBEDED BARS, ETC. BY GROUND PENETRATING RADAR (GPR), X–RAY, CHIPPING OR OTHER MEANS.
8. CONTINUOUS OR PERIODIC SPECIAL INSPECTIONS FOR POST INSTALLED ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4.4 OF THE INDIVIDUAL INTERNATIONAL CODE COUNCIL– EVALUATION SERVICE (ICC– ES) REPORT FOR THE INDIVIDUAL ANCHOR. THE CONTRACTOR SHALL GIVE THE SPECIAL INSPECTOR SUFFICIENT ADVANCE NOTICE TO ALLOW ENOUGH TIME FOR PROPER INSPECTION OF HOLE PREPARATION, ANCHOR INSTALLATION, TIGHTENING, ETC. ANCHORS INSTALLED WITHOUT INSPECTION AT ALL THESE PHASES SHALL BE REJECTED AND WILL HAVE TO BE REPLACED AT CONTRACTOR'S EXPENSE.

STEEL PAINTING NOTES – EXPOSED STEEL:

1. CLEAN STEEL IN ACCORDANCE WITH SSPC–SP6 COMMERCIAL BLAST CLEANING AND COAT WITH TNEMECNO. 50–330 POLY–URA–PRIME AT 2– 3 MILS DRY FILM THICKNESS (DFT), OR APPROVED EQUAL. AFTER ERECTION AND TOUCH UP APPLY A FULL COAT OF TNEMEC SERIES 161 TNEME–FASCURE EPOXY PAINT 3–5 MILS DFT IN WINTER AND SERIES 135 CHEMBUILD EPOXY PAINT 5–6 MILS DFT, OR APPROVED EQUAL, IN SUMMER. APPLY PRIMER WITHIN 4 HOURS AFTER CLEANING.

METAL DECK NOTES:

1. METAL DECK SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF LIGHT GAUGE COLD FORMED STEEL STRUCTURAL MEMBERS" AND TO THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS.
2. ALL METAL DECK SHALL BE COMPOSITE TYPE UNLESS OTHERWISE NOTED. STEEL SHALL CONFORM TO ASTM A653, GRADE 40. ALL MATERIAL SHALL BE HOT–DIPPED, GALVANIZED UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL SUBMIT FOR ARCHITECT'S APPROVAL SHOP DRAWINGS INDICATING LOCATION, GAUGE AND SIZE OF EACH PIECE OF METAL DECK. THE DRAWINGS SHALL SHOW DETAILS OF WELDING TO STRUCTURAL STEEL AND SIDE LAP CONNECTION DETAILS. DETAILS RELATED TO SUPPORT OF THE DECK ON WALLS, BEAMS, ETC. SHALL BE INCLUDED.
4. METAL DECK SHALL BE PUDDLE WELDED TO THE STRUCTURAL STEEL SUPPORTS AT 12 INCHES ON CENTER (MAXIMUM). SIDE LAPS OR ADJOINING PANELS SHALL BE PUNCHED TOGETHER OR WELDED EVERY 24 INCHES ON CENTER (MAXIMUM).
5. ALL PUDDLE WELDS SHALL BE 3/4 INCH DIAMETER. ALL METAL DECK SHALL BE WELDED TO STRUCTURAL STEEL BY QUALIFIED WELDERS, USING PRE QUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR PUDDLE WELDING PRIOR TO THE START OF ERECTION OF THE STEEL DECK. EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AS MONITORED BY THE QUALIFIED TESTING LABORATORY, IN OWNER'S DIRECT EMPLOY.
6. PROVIDE CONTINUOUS SHEET METAL CLOSURES AT ALL SLAB EDGES. PROVIDE SHEET METAL CLOSURES AT COLUMNS, CANT STRIPS, SUMP PANS, ROOF DRAINS, PIPE PENETRATIONS, ETC. CLOSURE THICKNESS SHALL BE 18 GAUGE (MINIMUM). THE APPROPRIATE GAGE SHALL BE DESIGNED BY A STRUCTURAL ENGINEER IN METAL DECK CONTRACTOR'S EMPLOY. THE GAGE SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR ARCHITECT'S APPROVAL.
7. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS, MOMENT CONNECTIONS ETC. AS REQUIRED FOR SUPPORT OF THE METAL DECK.
8. METAL DECK SHALL BE CAPABLE OF SUPPORTING THE WET CONCRETE AND OTHER CONSTRUCTION LOADS WITHOUT SHORING.
9. ALL WELDS CONNECTING METAL DECK TO SUPPORTING STEEL SHALL BE VISUALLY INSPECTED BY A QUALIFIED TESTING AGENCY IN OWNER'S DIRECT EMPLOY.

METAL STUDS AND JOISTS NOTES:

1. STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS.
2. STUDS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION.
3. MEMBERS SHALL BE FORMED FROM STEEL HAVING A G–60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM C–955.
4. STUDS AND JOISTS OF 12, 14 AND 16 GAGE THICKNESSES SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A653 HSLAS TYPE A, WITH A MINIMUM YIELD OF 50,000 PSI.
5. EXCEPT AS SPECIFIED ABOVE, ALL STEEL SHALL CONFORM TO ASTM A653 SS GRADE WITH A MINIMUM YIELD OF 33,000 PSI.
6. PRIOR TO FABRICATION OF FRAMING, THE CONTRACTOR SHALL SUBMIT FABRICATION AND ERECTION DRAWINGS TO THE ARCHITECT TO OBTAIN APPROVAL.
7. FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENTS TO PERPENDICULAR MEMBERS, OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
8. FASTENING OF COMPONENTS SHALL BE WITH SELF–DRILLING SCREWS OR WELDING. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC–RICH PAINT.
9. RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON THE DRAWINGS. ABUTTING LENGTHS OF RUNNER SHALL EACH BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, BUTT–WELDED OR SPLICED.
10. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO FLANGES OF BOTH UPPER AND LOWER RUNNERS.
11. JACK STUDS OR CRIPPLES SHALL BE INSTALLED BELOW WINDOW SILLS, ABOVE WINDOW AND DOOR HEADS, AND ELSEWHERE TO FURNISH SUPPORTS, AND SHALL BE SECURELY ATTACHED TO CONNECTING MEMBERS
12. LATERAL BRACING SHALL BE PROVIDED BY USE OF HORIZONTAL STRAPS OR COLD–ROLLED CHANNELS
13. UNIFORM AND LEVEL JOIST BEARING SHALL BE PROVIDED AT FOUNDATION WALLS BY MEANS OF SHIMS AND/OR NON–SHRINK GROUT.
14. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE BEARING WALL.
15. WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS AND AT POINTS OF CONCENTRATED LOADS WHERE INDICATED ON THE DRAWINGS.
16. JOIST BRIDGING SHALL BE PROVIDED PER MANUFACTURER'S REQUIREMENTS, UNLESS OTHERWISE NOTED.
17. ADDITIONAL JOISTS SHALL BE PROVIDED UNDER PARALLEL PARTITIONS WHEN THE PARTITION LENGTH EXCEEDS ONE–HALF THE JOIST SPAN, ALSO AROUND ALL FLOOR AND ROOF OPENINGS WHICH INTERRUPT ONE OR MORE SPANNING MEMBERS, UNLESS OTHERWISE NOTED.

BIDDER'S WARRANTY:

BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRAC

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO OTHER TRADES, STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
3. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
4. DRAWINGS ARE NOT TO BE SCALED.
5. CONTRACTOR SHALL COMPLY WITH ALL LOCAL BUILDING DEPARTMENT REGULATORY AGENCIES, BUILDING STANDARDS AND NEW YORK CODE REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
6. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
7. ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
8. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
9. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
10. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE.
11. BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
12. AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
13. VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALL; PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING AT THE PANTRY SHALL BE STEEL WITH CHROME PLATED FINISH.
14. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
15. PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
16. PLUMBING CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
17. ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.

NYC BUILDING DEPARTMENT 2014 PLUMBING NOTES

1. THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, WATER DISTRIBUTION, GAS ETC.) AND ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2014 NEW YORK CITY BUILDING, PLUMBING AND GAS CODES AND CURRENT REVISIONS.
2. ALL PLUMBING WORK SHALL COMPLY WITH CHAPTER 4 OF THE 2014 NEW YORK CITY BUILDING CODE AND CHAPTERS 1 THROUGH 13 AND APPENDICES A THROUGH G OF THE NEW YORK CITY PLUMBING CODE.
3. THE SANITARY SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS PC305.
4. THE MATERIALS USED IN THE PLUMBING SYSTEMS WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTION PC303.
5. THE INSTALLATION OF PLUMBING FIXTURES, FAUCETS AND FIXTURE FITTINGS SHALL BE IN ACCORDANCE WITH PC401 THROUGH PC427.
6. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH THE FULL COMPLIANCE WITH SECTION PC308.
7. CLEANOUTS SHALL BE INSTALLED AS PER SECTION PC708.
8. TRAPS FOR FIXTURES SHALL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC1002.
9. THE WATER SUPPLY SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH PC601 THROUGH PC613.
10. VALVES SHALL BE PROVIDED AS PER SECTION PC606.
11. THE SANITARY DRAINAGE SYSTEM WILL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC701 THROUGH PC715.
12. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC901 THROUGH PC919.
13. SANITARY TEES AND QUARTER BENDS MAY BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
14. SHORT SWEEPS WILL BE PERMITTED IN DRAINAGE PIPING 3 INCH DIAMETER OR LARGER FOR ANY OFFSETS EITHER HORIZONTAL OR VERTICAL.
15. SPECIAL AND STORAGE SYSTEMS PIPING SHALL BE DIRECTED IN SECTION PC1201 THROUGH PC1204.
16. STORM DRAINAGE PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF PC1101 THROUGH PC1113.
17. BACKFLOW PROTECTION OF THE POTABLE WATER SUPPLY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 608.13 THROUGH 608.16 AND 301.4.
18. WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH PC501 THROUGH PC 505.
19. FUEL GAS SYSTEMS PIPING AND ALL RELATED APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH FGC401 THROUGH FGC415 AND IN ACCORDANCE WITH NFPA#54 2008.

ALL PLUMBING WORKS SHALL ALL COMPLY WITH NYC 2014 PLUMBING CODE

BOILER ROOM NOTES

1. NO STORAGE PERMIT WITHIN BOILER ROOM.
2. REMOTE CONTROL SWITCH LOCATED OUTSIDE BOILER ROOM.
3. ALL WORK TO BE DONE BY A LICENSED PLUMBER.
4. CONTRACTOR TO CHECK ALL CONDITIONS NOTES, ETC., AT PREMISES BEFORE WORK IS STARTED. PROCURE ALL PERMIT REQUIRED BY ALL CITY DEPARTMENT AND SIGN-OFF CARD UPON COMPLETION OF WORK.
5. GAS PRESSURE WILL NOT EXCEED 1/2 PSI AT THE BUILDING ENTRANCE WALL AS PER SEC.P115.3
6. PROVIDE ACCESS PATH OF 36"WIDE IN FRONT OF BOILER.

GAS NOTES

1. ALL REQUIREMENTS FOR THE INSTALLATION OF GAS PIPES SHALL BE IN ACCORDANCE WITH USUAL 221-30 1965 AND ALL AGENCIES HAVING JURISDICTION INCLUDING GAS METER ARRANGEMENT.
2. BRANCH SHALL BE TAKEN OFF THE RISER WITH NOT LESS THAN A2 ELBOW SWING.
3. BRANCH OUTLET PIPES SHALL BE TAKEN FROM THE TOP OR SIDE OR HORIZONTAL LINES AND NOT FROM THE BOTTOM PROVIDED STOP COCK OR VALVE FOR EACH GAS BURNING FIXTURE AND EQUIPMENT REQUIRING GAS.
4. NO GAS MAINS SHALL BE LESS THAN 3/4" PIPE SIZE.

NOTES AS PER 28-101.4.2

1. THE INSTALLATION AND ALTERATION OF ALL APPLIANCES, EQUIPMENT AND SYSTEMS REGULATED BY THE NEW YORK CITY FUEL GAS CODE, THE NEW YORK CITY PLUMBING CODE AND THE NEW YORK CITY MECHANICAL CODE SHALL BE GOVERNED BY APPLICABLE PROVISIONS OF THOSE CODES RELATNG TO NEW AND EXITING INSTALLATIONS.

DEMOLITION NOTES

1. THE GENERAL CONTRACTOR SHALL FINISH ALL LABOR AND MATERIALS AS REQUIRED TO COMPLETED DEMOLITION AND REMOVAL OF ALL THE ITEMS AS INDICATED IN THE DRAWINGS OR AS OTHERWISE DIRECTED.
2. ALL EXISTING FLOOR FINISH, WALL FINISH, AND CEILING FINISHES TO REMAIN UNLESS OTHERWISE NOTED.
3. THE GENERAL CONTRACTOR SHALL EXECUTE ALL WORK WITHIN THE REGULATIONS OF THE BUILDING FOR DEMOLITION AND REMOVAL OF DEBRIS, INCLUDING OVERTIME WORK REQUIRED.
4. ALL WORK DEMOLISHED SHALL BE REMOVED FROM THE PREMISES EXCEPT ITEMS TO BE REUSED OR RETURNED TO TENANT OR AS OTHERWISE DIRECTED.
5. THE GENERAL CONTRACTOR SHALL REMOVE ALL THE WALL CONDUITS LEFT AFTER WALL DEMOLITION, INCLUDING SWITCH BOXES, PLATES, BRIDGES, OR ANY OTHER TELEPHONE OR ELECTRICAL, WIRING AND EQUIPMENT.
6. IN ALL AREAS WHERE DEMOLITION REMOVAL OF TILE, CARPET, TACKLESS, PARTITIONS ETC. CAUSES AN UNEVENESS IN SLAB, THE CONTRACTOR SHALL PATCH TO LEVEL THE SLAB TO RECEIVE NEW FINISHED FLOORING.
7. ALL EXPOSED LIGHT FIXTURES, WIRING, SWITCHES, AND METAL MOLDING NOT BEING REUSED SHALL BE REMOVED AND EITHER STORED OR CARTED AWAY BY THE GENERAL CONTRACTOR.
8. THE GENERAL CONTRACTOR SHALL ERECT ALL NECESSARY PLASTIC DROP CLOTH PARTITIONS TO PROTECT ADJACENT BUILDING PROPERTY WHILE DEMOLITION AND CONSTRUCTION ARE IN PROGRESS.
9. THE GENERAL CONTRACTOR SHALL AT ALL TIMES PROTECT THE PROPERTY OF THE BUILDING OWNER, INCLUDING BUT NOT LIMITED TO, WINDOWS, FLOOR AND CEILING TILE, PUBLIC TOILETS, ELEVATORS, DOORS BUCKS, ELECTRICAL AND AIR CONDITIONING EQUIPMENT, CONVERTER ENCLOSURE, ETC.
10. THE GENERAL CONTRACTOR SHALL FURNISH A SYSTEM OF TEMPORARY LIGHTS THROUGHOUT THE SPACE UNDER CONSTRUCTION AS REQUIRED.
11. THE GENERAL CONTRACTOR SHALL CAP AND FLUSH OFF BEHIND FINISH SURFACES ALL PROJECTING PLUMBING, FLOOR ELECTRICAL OUTLETS, AND ALL OTHER PROJECTING ITEMS WHICH ARE BEING ABANDONED.
12. UPON COMPLETION OF THE DEMOLITION WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THAT ALL AREAS BE LEFT BROOM CLEAN.
13. ALL DOORS AND WINDOWS TO BE DEMOLISHED SHALL INCLUDE FRAMES, AND STOPS IN THEIR ENTIRETY.
14. G.C. TO COORDINATE WITH BUILDING'S SECURITY VENDOR ON EXACT LOCATION AND RUN OF PROPOSED CABLING AND CONDUITS FOR ALL SECURITY EQUIPMENT.

DO NOT PROCEED WITH ANY STRUCTURAL DEMOLITION WORK UNLESS NOTED ON THE STRUCTURAL DRAWINGS. UNFORSEEN AND ADDITIONAL DEMOLITION REQUIRED MUST BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO START OF WORK.

CONSTRUCTION NOTES:

1. SEE SPECIFICATIONS FOR MATERIAL AND APPLICATION INFORMATION.
2. DIMENSIONS SHOWN ARE FROM FINISH TO FINISH, UNLESS NOTED OTHERWISE. VERIFY ALL DIMENSIONS IN FIELD. INFORM ARCHITECT OF ANY VARIATION AND RESOLUTION PRIOR TO WALL INSTALLATION.
3. PATCH SMOOTH AND PLUMB ALL EXISTING WALLS AND FLOORS.
4. FILL ALL HOLES FROM ABANDONED FLOOR DEVICES WITH NON-SHRINK GROUT.
5. ENTIRE ROOM FLOOR SHALL BE LEVELED. USE LIGHTWEIGHT FLOOR LEVELING CONCRETE OR APPROVED EQUAL.
6. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR BALANCE OF INFORMATION.
7. CONTRACTOR TO LAYOUT PARTITION LOCATION ON FLOOR FOR ARCHITECT'S APPROVAL PRIOR TO METAL STUDS INSTALLATION.
8. PATCH ALL EXISTING HOLES ON WALLS AND COLUMNS INCLUDING UNUSED POWER/DATA/TEL. WALL OPENING.
9. FLOOR SHALL BE PROTECTED DURING DELIVERY OF HEAVY EQUIPMENT SO AS NOT TO DAMAGE FLOOR STRUCTURE AND FINISH.
10. ALL GYPSUM BOARD WALLS TO BE BY UNITED STATES GYPSUM COMPANY OR EQUAL, ANY DEVIATION FROM U.S. GYP. TO BE EITHER B.S.A OR M.E.A. APPROVED ON ALL RATED WALLS AND OR PARTITIONS, ANY CHANGE FROM RATED WALLS MUST BE APPROVED BY ARCHITECT.
11. ALL THERMOSTATS, F.A DEVICES AND ANY OTHER CONTROL PANELS TO LOCATED IN FIELD BY ARCHITECT.
12. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET AREAS.
13. GC. TO COORDINATE ALL REQUIRED SECURITY WORK WITH SECURITY VENDOR.
14. PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL BEFORE FABRICATION.
15. INCASE OF DISCREPANCY BEWEEN THE ARCHITECT'S AND ENGINEER'S DRAWINGS, THE MORE STRINGENT, HIGHER QUANTITY, OR HIGHER QUALITY SHALL PEVAIL. CONTRACTOR IS TO INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO SUBMITTING BID.
16. ANY FIREPROOFING DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE GC.
17. PRIOR TO CLOSING WALL, GC. TO COORDINATE INSTALLATION OF VOICE/DATA WIRING AND CONDUIT WITH TELECOM VENDOR.
18. GC. TO PROVIDE FIRE RETARDENT BLOCKING AT ALL MILLWORK, WALL HUNG, EQUIPMENT, ETC. AS REQUIRED.
19. PROVIDE RETURN AIR CUT OUT IN WALLS ABOVE CEILING AS REQUIRED.

DEPARTMENT OF PARKS AND RECREATION TREE PROTECTION NOTES

1. ANYONE PERFORMING ANY AND ALL WORK PERFORMED WITHIN 50 FEET OF A CITY TREE MUST POSSESS A PERMIT ISSUED BY THE NYC PARKS DEPARTMENT TO AVOID UNSAFE, HAZARDOUS AND OTHER CONDITIONS WHICH MAY BE DETRIMENTAL OR POTENTIALLY DETRIMENTAL TO ANY CITY TREE. IT IS INCUMBENT UPON THE APPLICANT TO ASCERTAIN AS TO WHETHER OR NOT THERE ARE ANY TREES OR TREE ROOTS SITUATED WITHIN THE CITY RIGHT OF WAY. ANY AND ALL TREES THAT FALL WITH THE JURISDICTION OF THE NYC PARKS DEPARTMENT ARE PROTECTED BY LAW FROM ANY AND ALL DAMAGE THERETO INCLUDING BUT NOT LIMITED TO ANY INCIDENTAL DAMAGES, DAMAGE TO THE CANOPY, OR DAMAGE TO THE TRUNK OR ROOT ZONE DURING AND IN THE COURSE OF ANY AND ALL CONSTRUCTION ACTIVITIES, AND ALSO THE AFTERMATH OF ANY AND ALL CONSTRUCTION ACTIVITIES. NO CUTTING OR OTHERWISE DAMAGING OF TREE ROOTS IS PERMITTED. ANY AND ALL TREE WORK MUST BE PERMITTED. TREE WORK PERFORMED ABSENT A PERMIT CAN PRECIPITATE SERIOUS FINANCIAL AND LEGAL REPERCUSSIONS. VIOLATIONS AND MISDEMEANORS ARE PUNISHABLE BY A FINE NOT TO EXCEED $15,000 AND/OR IMPRISONMENT FOR UP TO ONE YEAR. ANY AND ALL APPLICATIONS RELATING TO CONSTRUCTION ACTIVITIES MUST BE ACCOMPANIED BY THE APPROPRIATE DOCUMENTATION AS REQUESTED PER P-A FORESTRY APPLICATION OR UPON FORESTER REQUEST.
2. CONTRACTOR/OWNER SHALL NOTIFY NYC PARKS/ FORESTRY AT LEAST 20 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK REQUIRING A PERMIT.
3. TEMPORARY WOODEN TREE GUARDS AND TEMPORARY SNOW FENCE BOUNDARY SHALL BE INSTALLED IMMEDIATELY AROUND EACH TREE IMPACTED BY DEMOLITION AND/OR CONSTRUCTION AND MAINTAINED THROUGHOUT THE COURSE OF THE ENTIRE DEMOLITION AND CONSTRUCTION PROCESS.
4. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF THE EXISTING TREES. BULK MATERIAL, EQUIPMENT, SCAFFOLD FOOTINGS, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE, OR WITHIN TEN (10) FT. OF THE TRUNK (WHICHEVER IS GREATER). THIS IS DONE TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. THIS APPLIES TO ALL CRZS WITHIN OR OUTSIDE THE PROJECT LIMIT LINE. EVERY INCH OF DBH(DIAMETER BREAST HEIGHT) OF THE TREE REPRESENTS ONE REQUIRED RADIAL FOOT OF TREE PROTECTION.

DEPARTMENT OF PARKS AND RECREATION TREE PROTECTION NOTES (CONTINUED)

5. IF STOCKPILING OCCURS WITHIN THE CRZ, A STOP WORK ORDER SHALL BE ISSUED IMMEDIATELY TO THE NYC DEPARTMENT OF BUILDINGS. ADDITIONAL VIOLATIONS MAY BE ISSUED AND MAY REQUIRE REMEDIAL WORK TO REMAIN WITHIN FORESTRY INSPECTOR'S PRESCRIBED TIMEFRAME. WORK SHALL NOT RE-COMMENCE UNTIL ALL STOCKPILED MATERIAL IS REMOVED FROM THE CRZ AND TREE REMEDIATION IS SATISFIED.
6. IF ANY MACHINERY IS OPERATING WITHIN THE CRZ THE AFFECTED AREA SHALL BE COVERED WITH MULCH TO A DEPTH OF AT LEAST TWELVE (12)-INCHES AND COVERED WITH PLYWOOD OR METAL PLATES TO DISTRIBUTE WEIGHT IN ORDER TO PROTECT ROOTS FROM DAMAGE CAUSED BY HEAVY EQUIPMENT. SUCH COVERING SHALL BE MAINTAINED DURING THE COURSE OF CONSTRUCTION AND REMOVED BY HAND OR AS SPECIFIED BY THE CONTRACTED CERTIFIED ARBORIST OR FORESTRY INSPECTOR WITH ASSOCIATED PHOTOS REPORTED ACCORDINGLY. HEAT SOURCES, FLAMES, IGNITION SOURCES, AND SMOKING ARE PROHIBITED WITHIN THE CRZ AND WITHIN THE ABOVE MENTIONED MULCHED AREA.
7. WHEN A DEFICIENCY IN TREE PROTECTION IS DETERMINED BY A FORESTRY INSPECTOR IT MUST BE REMEDIED IMMEDIATELY. FAILURE TO CORRECT THE DEFICIENCY IMMEDIATELY MAY RESULT IN VIOLATIONS AND SUMMONS.
8. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL PERFORM REMEDIAL WORK TO DAMAGED TREES AT THE CONTRACTOR'S EXPENSE; THIS WORK SHALL MEET ALL NYC PARKS REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLY WITH NYC PARKS REGULATIONS. ADDITIONAL RESOURCES ARE AVAILABLE AT THE NYC PARKS WEBSITE HTTP://WWW.NYCGOVPARKS.ORG/SERVICES/FORESTRY/
9. CONTRACTOR WILL CONTACT NYC PARKS IF ANY UNDERGROUND INFRASTRUCTURE (GAS, WATER/ELECTRIC ETC.) AFFECTS ANY PROPOSED/EXISTING TREES ONSITE. PROJECT MANAGER IS AWARE THAT ANY WORK DONE ON OR WITHIN 50 FEET OF A CITY TREE REQUIRES A PERMIT FROM NYC PARKS. THIS INCLUDES UTILITY, SIDEWALK, PRUNING, OR ANY OTHER WORK WITHIN THE CRZ OF A TREE (WITHIN THE CITY RIGHT OF WAY) DONE BY THE GENERAL CONTRACTOR OR ANY SUBCONTRACTORS. CONTRACTOR WILL BE FAMILIAR WITH, AND FOLLOW NYC PARKS PLANTING AND FORESTRY SPECIFICATIONS. IN SOME INSTANCES, UTILITIES MAY NOT BE LABELED ON PROPOSED SITE PLAN. IF UTILITIES ARE UNKNOWN, THE PROJECT MANAGER MUST AMEND THE PLANS AND REQUEST THEIR PLANS BE REAPPROVED BY NYC PARKS.
10. CONSTRUCTION ACCESS ROUTE IS TO BE DIAGRAMMED AND ROUTED TO MINIMALLY IMPACT ANY EXISTING TREES. FINAL ROUTE SHALL BE ESTABLISHED ON SITE AND APPROVED BY THE FORESTRY INSPECTOR. SITE PLANS ARE TO BE INCLUDED AND AMENDED ACCORDINGLY WHEN REQUESTING NYC PARKS APPROVAL.
11. ROOTS OVER ONE (1)-INCH IN DIAMETER SHALL NOT BE CUT WITHOUT THE WRITTEN PERMISSION OF THE BOROUGH DIRECTOR OF FORESTRY.
12. TO BEST PROTECT TREE ROOTS THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN REMOVING CONCRETE OR ASPHALT WITHIN THE CRZ OF EXISTING TREES. PAVEMENT SHOULD BE LIFTED RATHER THAN DRAGGED. ANY EXCAVATION WITHIN THE CRZ, OR ELSEWHERE ON SITE, AS INDICATED ON TREE PROTECTION PLAN, SHALL BE DONE BY HAND OR PNEUMATIC EXCAVATION AND IN THE PRESENCE OF THE FORESTRY INSPECTOR OR CONTRACTED CERTIFIED ARBORIST WITH ASSOCIATED PHOTOS AND REPORT TO BE FILED WITH NYC PARKS FORESTRY INSPECTOR. CONTRACTOR IS TO SCHEDULE APPOINTMENT WITH FORESTRY INSPECTOR ACCORDINGLY.
13. THE EXCAVATION AREA WITHIN THE CRZ SHALL BE BACKFILLED IMMEDIATELY AND/OR ROOTS SHALL BE KEPT CONSTANTLY MOIST WITH BURLAP COVERED WITH WHITE PLASTIC AND CHECKED A MINIMUM OF TWO (2) TIMES A DAY, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON, FOR A MAXIMUM OF FORTY-EIGHT (48) HOURS, UNTIL BACKFILL IS COMPLETE AS DIRECTED BY THE DIRECTOR OF LANDSCAPE CONSTRUCTION AND THE RESIDENT ENGINEER. IF DIRECTED, SOAKER HOSES SHALL BE INSTALLED TO FACILITATE PROPERLY MOIST CONDITIONS. NO POOLING OF WATER OR CONTINUOUS RUNNING WATER SHALL OCCUR WITHIN THE DRIP LINE OF EXISTING TREES OR WITHIN THE TREE PROTECTION ZONES OTHER THAN THAT DURING THE IRRIGATION PROCESS.
14. IF ROOTS ARE TO BE EXPOSED FOR A PERIOD GREATER THAN FORTY-EIGHT (48)-HOURS, THE EXPOSED AREA SHALL BE COVERED WITH AT LEAST SIX (6)-INCHES OF MULCH AND MAINTAINED MOIST DURING THE COURSE OF CONSTRUCTION UNTIL THE AREA CAN BE PROPERLY BACKFILLED. PHOTOS TO BE TAKEN PERIODICALLY AND REPORTED TO THE FORESTRY INSPECTOR BY LANDSCAPE CONTRACTOR OR CONTRACTED CERTIFIED ARBORIST.
15. NO RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIAL SHALL OCCUR WITHIN THE TREE PIT OR CRZ. NO PONDING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS SHALL OCCUR WITHIN TREE PIT OR CRITICAL ROOT ZONE.
16. ALL EXISTING TREES BEING PROTECTED ON PROPOSED JOBSITE ARE TO BE WATERED 20 GALLONS ONCE WEEKLY BETWEEN MARCH 1 AND OCTOBER 30 ACCORDINGLY TO BEST PRESERVE EXISTING TREES DURING DEMOLITION AND CONSTRUCTION PROCESSES. WATERING SHALL BE DONE IN A MANNER THAT THERE SHOULD NOT BE STANDING WATER AROUND THE TREE.
17. UNLESS OTHERWISE NOTED IT IS BEST TO KEEP EXISTING CONCRETE WITHIN TREE PROTECTION ZONE AS LONG AS POSSIBLE UNTIL REMOVAL AND REINSTALLATION OF NEW SIDEWALK. CONCRETE SHOULD BE LEFT INTACT THROUGHOUT THE DEMOLITION AND CONSTRUCTION PROCESS TO PREVENT FURTHER SOIL COMPACTION ON EXISTING TREE ROOTS. OTHER WORK MAY BE SPECIFIED BY FORESTRY INSPECTOR TO BE DONE WITHIN A PRESCRIBED TIMEFRAME. METAL GRATES ARE TO BE REMOVED IMMEDIATELY. COBBLESTONES ARE TO BE REMOVED IMMEDIATELY AND THE VOID CREATED IS TO BE AMENDED WITH SOIL LEVEL TO THE SIDEWALK. PIT EXPANSION MAY BE REQUIRED BY FORESTRY INSPECTOR.
18. PREPARATORY PRUNING WORK SHALL BE PERFORMED ONLY WHEN DIRECTED BY A FORESTRY INSPECTOR. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ANSI A300 STANDARDS AND BY A QUALIFIED, LICENSED & INSURED ARBORIST OR TREE SERVICE COMPANY. CONTRACTOR IS TO FOLLOW ALL NYC PARKS FORESTRY PERMIT & WORK ORDER REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE APPOINTMENT WITH FORESTRY INSPECTOR.
19. ALL NEW INDICATED TREE PITS ARE TO BE FULLY EXCAVATED TO THE DIMENSIONS LABELED AND REPLACED WITH NEW QUALITY TOPSOIL TO NYC PARKS STANDARDS.

ENERGY CONSERVATION NOTES

GENERAL CRITERIA COMMERCIAL BUILDING

1. FOR THE COMMERCIAL BUILDINGS, THE FOLLOWING AREA OF GLAZING AS A TOTAL PERCENTAGE OF THE TOTAL WALL AREA SHALL BE USED TO DETERMINE THE MAX.U. FOR COMMERCIAL BUILDINGS: 40% MAX..
2. INSULATION SHALL BE INSTALLED IN A MANNER THAT PROVIDES CONTINUITY OF INSULATION AT PLATE LINES, STILL LINES, AND CORNERS.
3. ALL INSULATION WHICH IS CAPABLE OF ABSORBING WATER SHALL BE PROTECTED BY A VAPOR BARRIER LOCATED ON THE WINTER WARM SIDE OF THE INSULATION.
4. MANUFACTURED DOORS AND WINDOWS SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THE FOLLOWING: A. WINDOWS - CFM PER LINEAR FOOT OF OPERABLE SASH CRACK - 0.2 B. DOORS - CFM PER SQ. FOOT OF DOOR AREA - SLIDING GLASS - 0.2 C. INFILTRATION WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 1.5671B/FT WHICH IS EQUIVALENT TO THE IMPACT PRESSURE OF A 25 MPH WIND.
5. EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES; OPENINGS BETWEEN WALLS AND ROOF/CEILINGS AND WALL PANELS; OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS, FLOORS AND ROOFS; AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED AS PER ABOVE.
6. MAIN ENTRANCE DOORS SHALL BE OF VESTIBULE TYPE.
7. ZONING FOR TEMPERATURE CONTROL: A. BUILDINGS SHALL BE PROVIDED WITH AT LEAST ONE THERMOSTAT FOR REGULATION OF SPACE TEMPERATURE FOR EACH SEPARATE ZONE. B. A READILY ACCESSIBLE MANUAL OR AUTOMATIC MEANS TO PARTIALLY RESTRICT OR SHUT OFF THE HEATING TO EACH DWELLING UNIT. C. A SWITCH OR A CLOCK SHALL PROVIDE A READILY ACCESSIBLE MANUAL OR AUTOMATIC MEANS FOR REDUCING THE ENERGY REQUIRED FOR HEATING OR COOLING FOR PERIODS OR NONE-USE OR REDUCED NEED.
8. PIPING INSULATION: A. ALL PIPING INSTALLED TO SERVICE BUILDING AND WITHIN BUILDINGS SHALL BE THERMALLY INSULATED AS PER TABLE 6.8.3-1 OF ASHRAE 90.1-2013, NYSECCC APPENDIX CA.
9. WATER HEATERS, BOILERS: A. EFFICIENCY STANDARDS FOR BOILER AS PER TABLE 6.8.1-6 OF ASHRAE 90.1-2013, NYSECCC APPENDIX CA. B. EFFICIENCY STANDARDS FOR WATER HEATERS AS PER TABLE TABLE 7.8 OF ASHRAE 90.1-2013, NYSECCC APPENDIX CA. C. INSULATION, TEMPERATURE CONTROLS, SHUTDOWN, PUMP OPERATION CONSERVATION OF HOT WATER AS PER SECTION 7.4.4 OF ASHRAE 90.1-2013, NYSECCC APPENDIX CA.
10. ALL EQUIPMENT SHALL BE IDENTIFIED TO INDICATE COMPLIANCE WITH NYSECCE.
11. MAXIMUM HEATING TEMPERATURE SETTING N.Y. STATE - 72 DEGREES, N.Y. CITY - 70 DEGREES, TEMPERATURE BASED ON 5000 DEGREES.
12. MINIMUM COOLING TEMPERATURE SETTING N.Y. STATE - 78 DEGREES. DAYS.
13. MAXIMUM DESIGN RELATION HUMIDITY SHALL BE 30% WHEN PROVIDED. THERMAL TRANSMITTANCE VALUES:
14. CONTRACTOR SHALL BE RESPONSIBLE FOR AND COMPLY WITH ALL THE APPLICABLE LAWS, ORDINANCES RULES AND REGULATIONS OF THE NYSECCC AND SHALL PROVIDE ALL THE CRITERIA AS OUTLINED IN THESE GENERAL NOTES AS PERTAINS TO RELATED EQUIPMENT, MATERIALS AND THEIR INSTALLATION AT THE JOB SITE.
15. INSULATION MATERIALS - NYC ADMIN. CODE SEC. C27 - 811, A. ALL INSULATION SHALL BE OF NON-COMBUSTIBLE MATERIAL. B. ALL MATERIALS COVERINGS, VAPOR BARRIERS AND ADHESIVE SHALL HAVE A FLAME SPREAD RATING NO HIGHER THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50.
16. DESIGN PROFESSIONAL STATES THAT TO THE BEST OF HIS KNOWLEDGE AND PROFESSIONAL JUDGMENT THE DESIGN HAS BEEN MADE IN COMPLIANCE WITH THE ENERGY CODE.

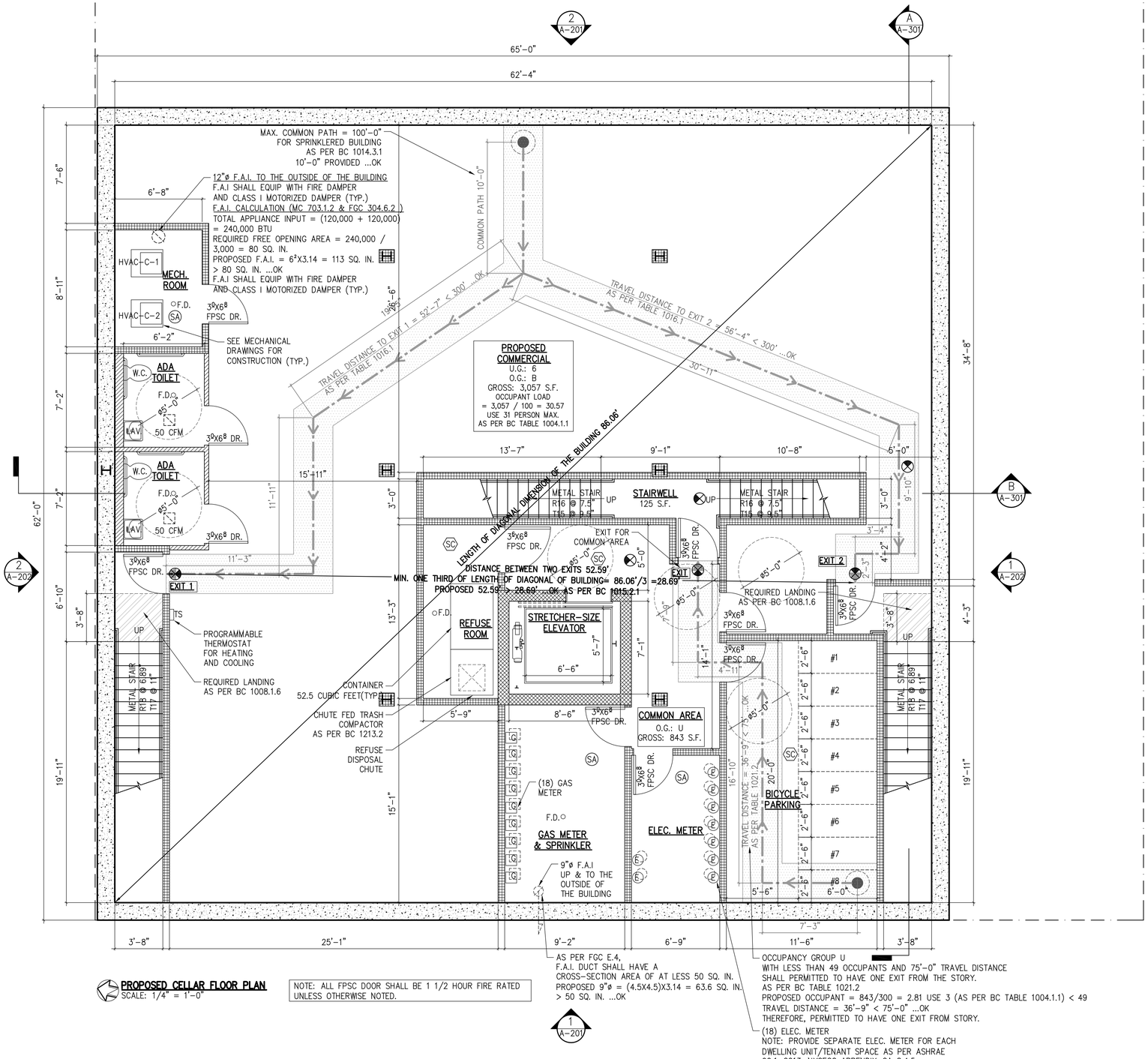
SECTION C408 SYSTEM COMMISSIONING

C408.2.5 DOCUMENTATION REQUIREMENTS.

THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN SECTIONS C408.2.5.1 THROUGH C408.2.5.3BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION.THE CONSTRUCTION DOCUMENTS SHALL ALSO SPECIFY THAT THE FINAL COMMISSIONING REPORT BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C408.2.5.4.

C408.2.5.2 MANUALS.

AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE ALL OF THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT.REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
4. HVAC AND SERVICE HOT WATER CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
5. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIP



PROPOSED CELLAR FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTE: ALL FPSC DOOR SHALL BE 1 1/2 HOUR FIRE RATED UNLESS OTHERWISE NOTED.

AS PER FGC E.4,
F.A.I. DUCT SHALL HAVE A
CROSS-SECTION AREA OF AT LESS 50 SQ. IN.
PROPOSED 9"ø = (4.5X4.5)X3.14 = 63.6 SQ. IN.
> 50 SQ. IN. ...OK

OCCUPANCY GROUP U
WITH LESS THAN 49 OCCUPANTS AND 75'-0" TRAVEL DISTANCE
SHALL PERMITTED TO HAVE ONE EXIT FROM THE STORY.
AS PER BC TABLE 1021.2
PROPOSED OCCUPANT = 843/300 = 2.81 USE 3 (AS PER BC TABLE 1004.1.1) < 49
TRAVEL DISTANCE = 36'-9" < 75'-0" ...OK
THEREFORE, PERMITTED TO HAVE ONE EXIT FROM STORY.

(18) ELEC. METER
NOTE: PROVIDE SEPARATE ELEC. METER FOR EACH
DWELLING UNIT/TENANT SPACE AS PER ASHRAE
90.1-2013, NYCECC APPENDIX_CA 8.4.5

LEGEND:

- PROPERTY LINE
- INTERIOR WALL PARTITION (WALL TYPE A)
- 2HR RATED WALL (WALL TYPE B)
- MASONRY WALL (WALL TYPE C)
- EXTERIOR WALL WITH FACE BRICK (WALL TYPE D)
- EXTERIOR WALL WITH STUCCO FINISH (WALL TYPE E)
- EXIT SIGN, MAX. 5 WATTS PER FACE (AS PER ASHRAE 90.1-2013, NYCECC APPENDIX CA SECTION 9.4.3)
  - INDICATES FACE OF SIGN
  - INDICATES DIRECTION
- SC — NYC APPROVED HARD-WIRED SMOKE/CARBON MONOXIDE DETECTOR
- SA — NYC APPROVED HARD-WIRED SMOKE ALARM
  NOTE: AS PER BC 907.2.10.3:
  SMOKE ALARMS OR DETECTORS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM OR DETECTOR WILL ACTIVATE ALL OF THE ALARMS OR DETECTORS IN DWELLING UNIT.
- TS — PROGRAMMABLE THERMOSTAT FOR HEATING AND COOLING AS PER ASHRAE 90.1-2013, NYCECC APPENDIX_CA 6.4.3.1.1 & 6.4.3.3.1 & 6.4.3.3.2

ARCHITECT

CITY BUILDING NY ARCHITECT P.C.
802 64th Street, #3
Brooklyn, NY 11220
Tel.: (718) 836-1828
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8361828@gmail.com

STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

PROPOSED CELLAR FLOOR PLAN

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

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Proj. No.	18-1665
Date	12-12-18
Scale	AS NOTED
Drawn	
SEAL	

DRAWING NUMBER

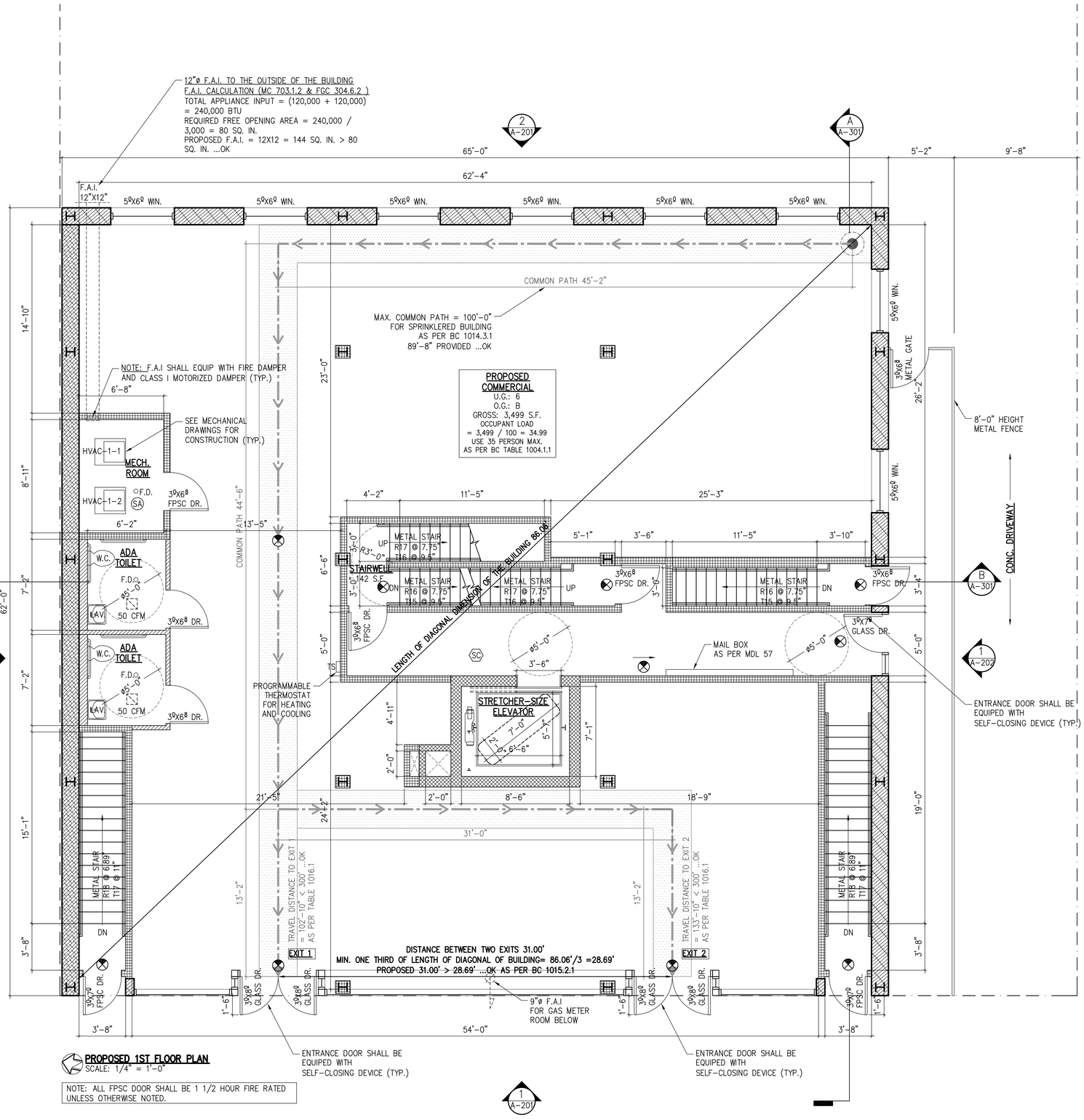
A-101.00

SHEET 7 OF 25

Orient and affix BBS job number label here

DOB STAMP

PRELIMINARY,
FOR INFORMATION ONLY
NOT FOR CONSTRUCTION



PROPOSED 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTE: ALL FPSC DOOR SHALL BE 1 1/2 HOUR FIRE RATED UNLESS OTHERWISE NOTED.

LEGEND:

- PROPERTY LINE
- INTERIOR WALL PARTITION (WALL TYPE A)
- 2HR RATED WALL (WALL TYPE B)
- MASONRY WALL (WALL TYPE C)
- EXTERIOR WALL WITH FACE BRICK (WALL TYPE D)
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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

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PROPOSED 1ST FLOOR PLAN

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SEAL

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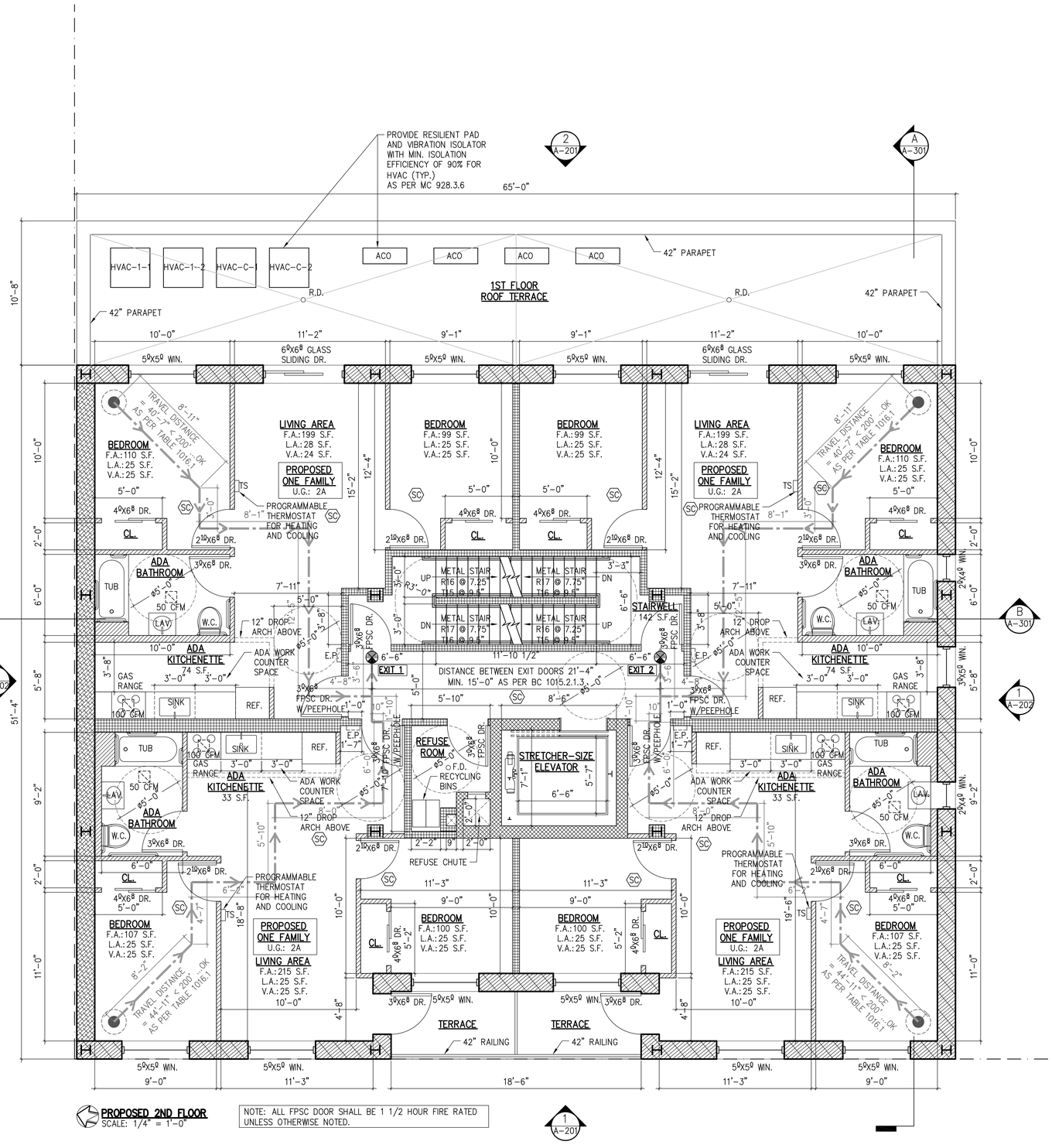
A-102.00

SHEET 8 OF 25

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PROPOSED 2ND FLOOR
SCALE: 1/4" = 1'-0"

LEGEND:

- PROPERTY LINE
- INTERIOR WALL PARTITION (WALL TYPE A)
- 2HR RATED WALL (WALL TYPE B)
- MASONRY WALL (WALL TYPE C)
- EXTERIOR WALL WITH FACE BRICK (WALL TYPE D)
- EXTERIOR WALL WITH STUCCO FINISH (WALL TYPE E)
- EXIT SIGN, MAX. 5 WATTS PER FACE (AS PER ASHRAE 90.1–2013, NYCECC APPENDIX CA SECTION 9.4.3)
  - INDICATES FACE OF SIGN
  - INDICATES DIRECTION
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- (SA) NYC APPROVED HARD–WIRED SMOKE ALARM
  NOTE: AS PER BC 907.2.10.3:
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DRAWING TITLE

PROPOSED 2ND FLOOR PLAN

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Date	12–12–18
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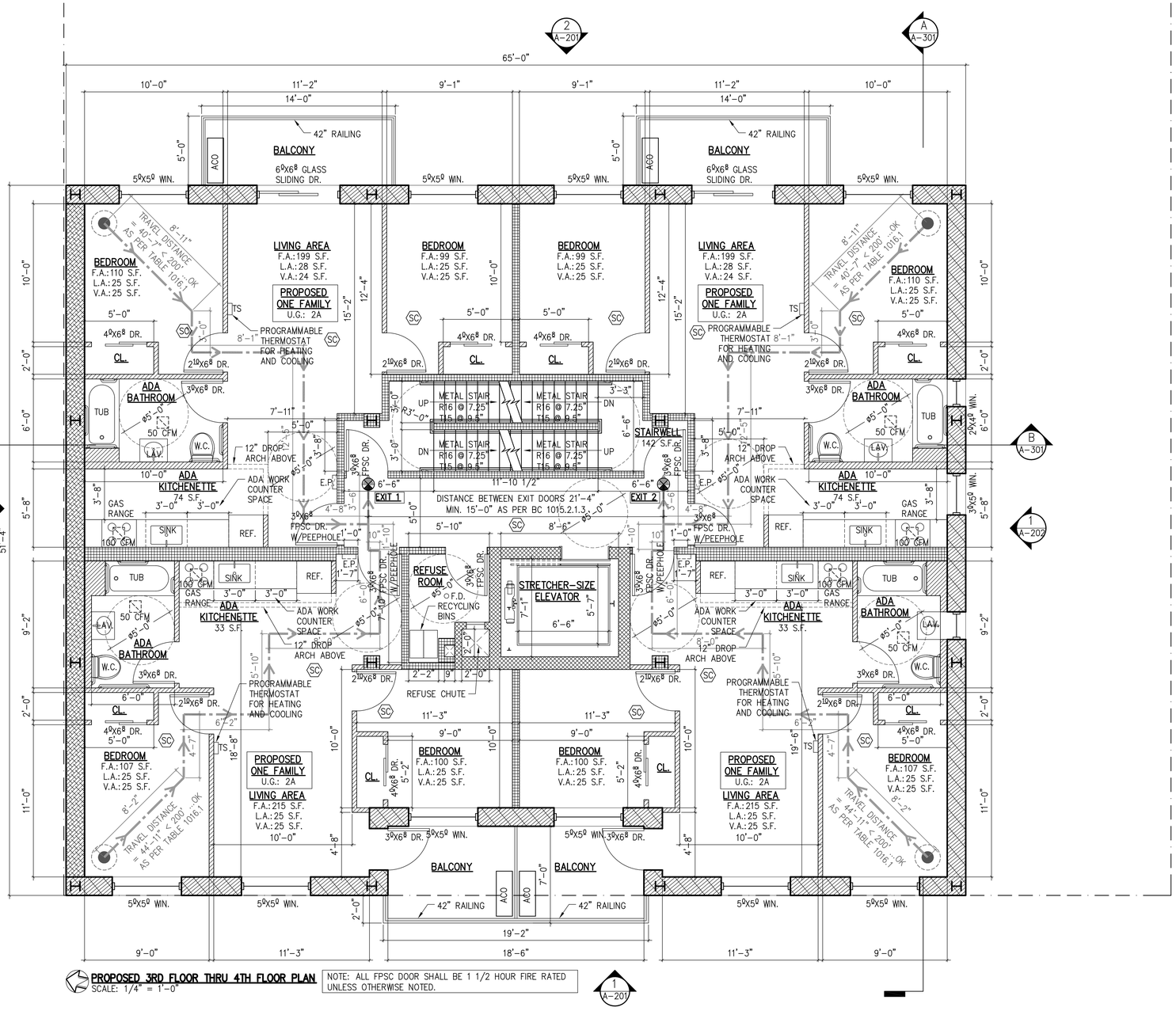
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SHEET 9 OF 25

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PROPOSED 3RD FLOOR THRU 4TH FLOOR PLAN.
SCALE: 1/4" = 1'-0"

NOTE: ALL FPSC DOOR SHALL BE 1 1/2 HOUR FIRE RATED UNLESS OTHERWISE NOTED.

LEGEND:

- PROPERTY LINE
- INTERIOR WALL PARTITION (WALL TYPE A)
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NEW BUILDING

1665 STILLWELL AVENUE
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DRAWING TITLE

PROPOSED 3RD THRU 4TH FLOOR PLANS

REVISIONS

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SEAL

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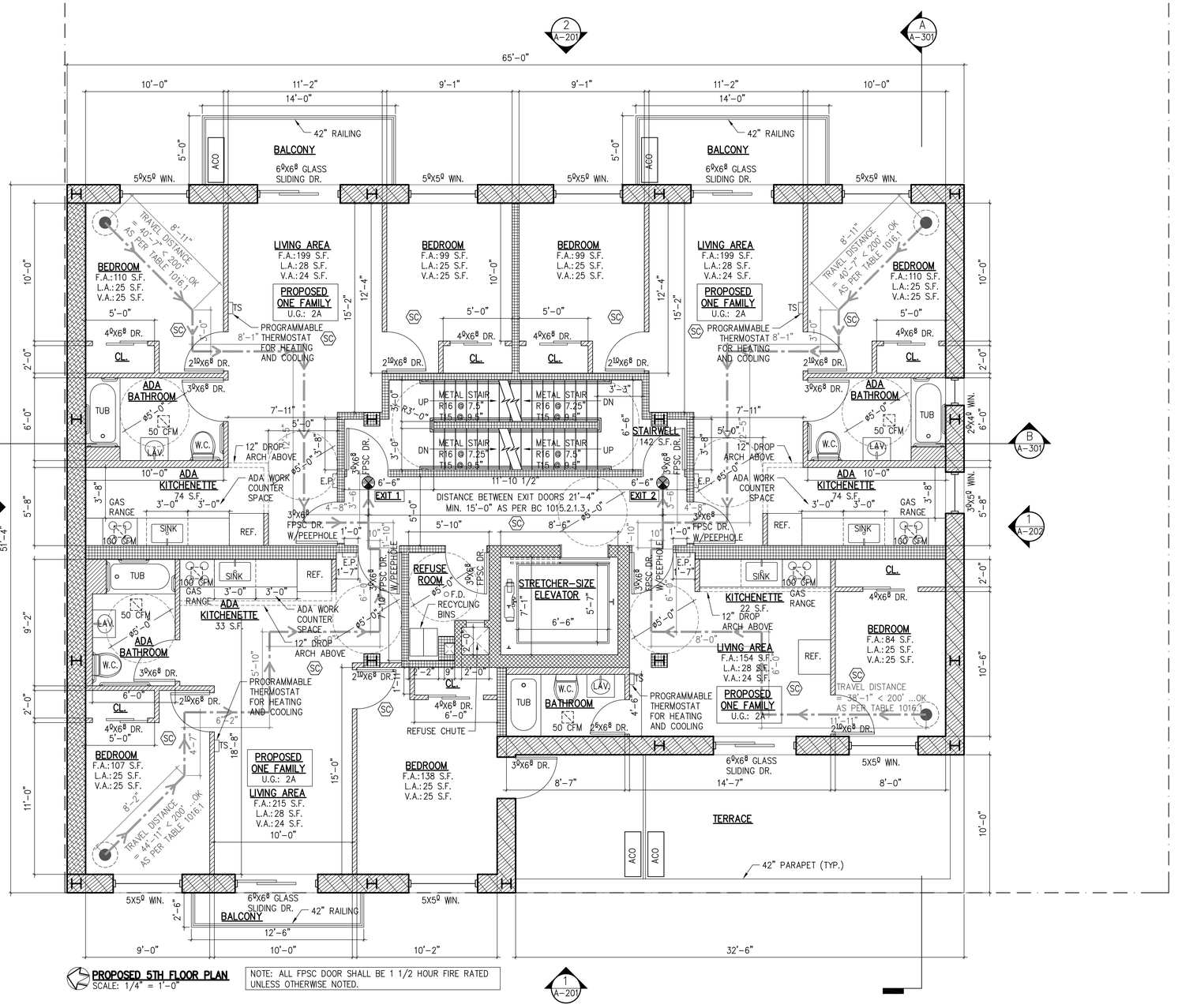
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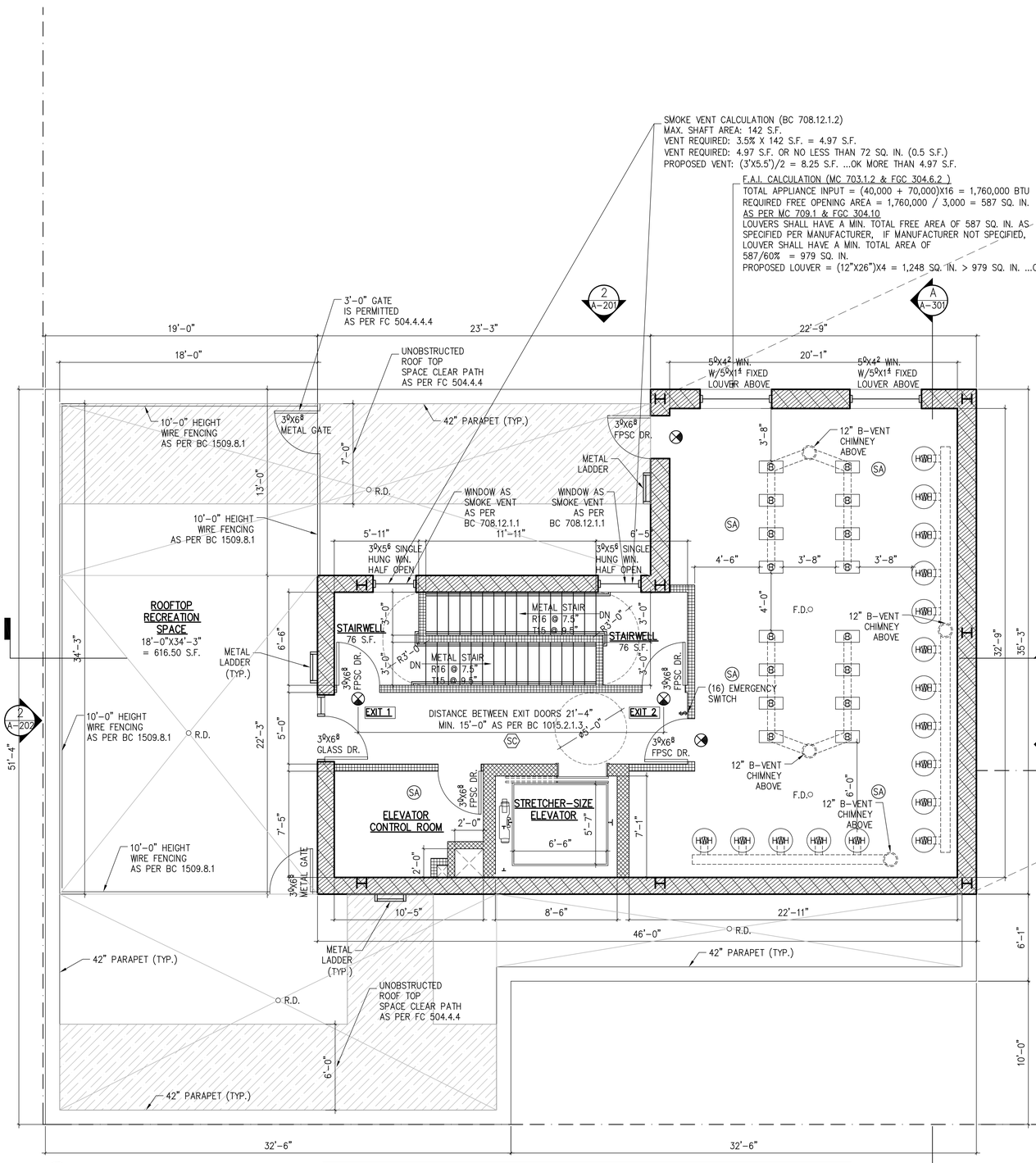
SHEET 10 OF 25

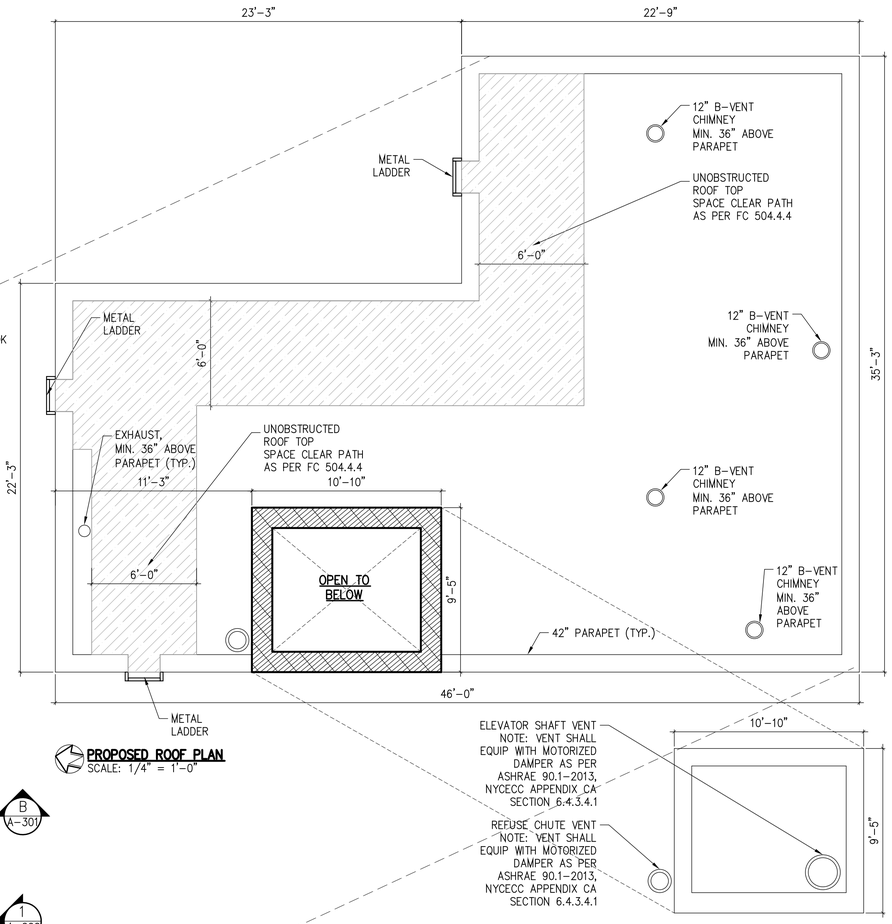
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65'-0"
10'-0"
11'-2"
9'-1"
9'-1"
11'-2"
10'-0"
14'-0"
42" RAILING
BALCONY
6⁰X6⁸ GLASS SLIDING DR.
5⁰X5⁰ WIN.
ACO
5'-0"
BEDROOM
F.A.:110 S.F.
L.A.:25 S.F.
V.A.:25 S.F.
LIVING AREA
F.A.:199 S.F.
L.A.:28 S.F.
V.A.:24 S.F.
PROPOSED ONE FAMILY
U.G.: 2A
BEDROOM
F.A.:99 S.F.
L.A.:25 S.F.
V.A.:25 S.F.
TRAVEL DISTANCE = 40'-7" < 200'...OK AS PER TABLE 1016.1
8'-11"
PROGRAMMABLE THERMOSTAT 8'-1" FOR HEATING AND COOLING
4⁰X6⁸ DR.
2¹⁰X6⁸ DR.
3⁰X6⁸ DR.
CL.
ADA BATHROOM
TUB
W.C.
LAV.
50 CFM
ø5'-0"
12" DROP ARCH ABOVE
ADA KITCHENETTE
74 S.F.
ADA WORK COUNTER SPACE
GAS RANGE
100 CFM
SINK
REF.
E.P.
3⁰X6⁸ FPSC DR. W/PEEPHOLE
EXIT 1
EXIT 2
DISTANCE BETWEEN EXIT DOORS 21'-4" MIN. 15'-0" AS PER BC 1015.2.1.3
11'-10 1/2
METAL STAIR R16 @ 7.5" T15 @ 9.5"
UP
DN
3'-3"
STAIRWELL 142 S.F.
REFUSE ROOM
O.F.D. RECYCLING BINS
STRETCHER-SIZE ELEVATOR
6'-6"
5'-7"
REFUSE CHUTE
KITCHENETTE 22 S.F.
BEDROOM
F.A.:84 S.F.
L.A.:25 S.F.
V.A.:25 S.F.
LIVING AREA
F.A.:154 S.F.
L.A.:28 S.F.
V.A.:24 S.F.
TRAVEL DISTANCE = 38'-1" < 200'...OK AS PER TABLE 1016.1
BEDROOM
F.A.:138 S.F.
L.A.:25 S.F.
V.A.:25 S.F.
PROPOSED ONE FAMILY
U.G.: 2A
LIVING AREA
F.A.:215 S.F.
L.A.:28 S.F.
V.A.:24 S.F.
TRAVEL DISTANCE = 44'-11" < 200'...OK AS PER TABLE 1016.1
8'-2"
6⁰X6⁸ GLASS SLIDING DR.
5X5⁰ WIN.
42" RAILING
BALCONY
12'-6"
42" PARAPET (TYP.)
TERRACE
14'-7"
8'-0"
8'-7"
32'-6"
9'-0"
10'-0"
10'-2"
2'-6"
51'-4"
2'-0"
6'-0"
5'-8"
9'-2"
11'-0"
10'-6"
15'-2"
12'-4"
15'-0"
18'-8"
6'-2"
4'-7"
2'-2"
2'-4"
2'-10"
1'-0"
2'-6"
3'-0"
3'-8"
4'-8"
5'-10"
8'-6"
6'-6"
7'-11"
5'-10"
4'-6"
2'-0"
1'-7"
1'-0"
2'-0"
2'-2"
6'-6"
3'-6"
3'-10"
3'-3"
2'-4"
2'-8"
2'-0"
2'-0"
2'-0





LEGEND:

- PROPERTY LINE
- INTERIOR WALL PARTITION (WALL TYPE A)
- 2HR RATED WALL (WALL TYPE B)
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- EXTERIOR WALL WITH FACE BRICK (WALL TYPE D)
- EXTERIOR WALL WITH STUCCO FINISH (WALL TYPE E)
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  - INDICATES DIRECTION
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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

PROPOSED ROOF PLANS

REVISIONS

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Drawn	

SEAL

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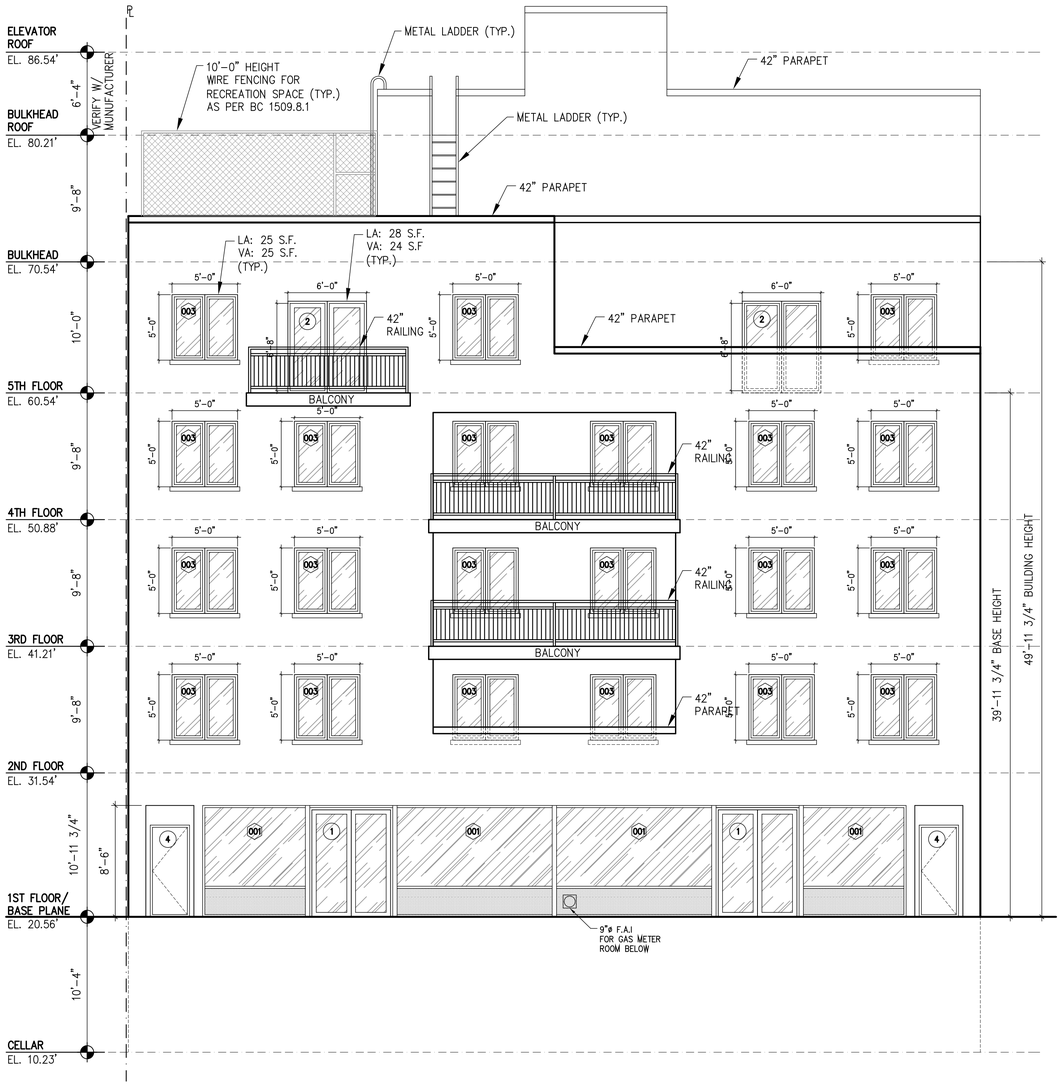
A-106.00

SHEET 12 OF 25

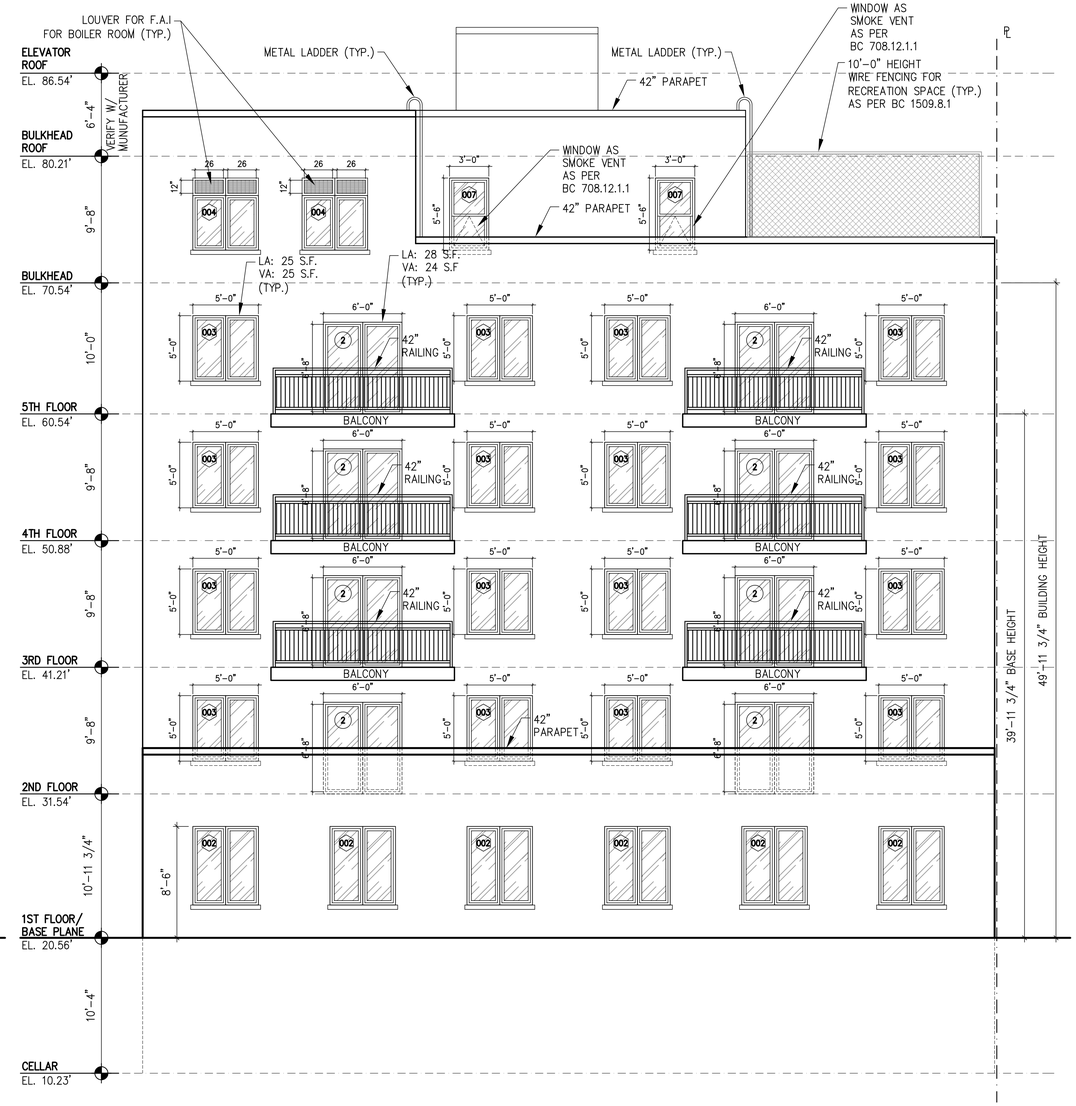
Orient and affix BBS job number label here

DOB STAMP

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1 A-201 **FRONT ELEVATION**
SCALE: 3/16"=1'-0"



2 A-201 **REAR ELEVATION**
SCALE: 3/16"=1'-0"

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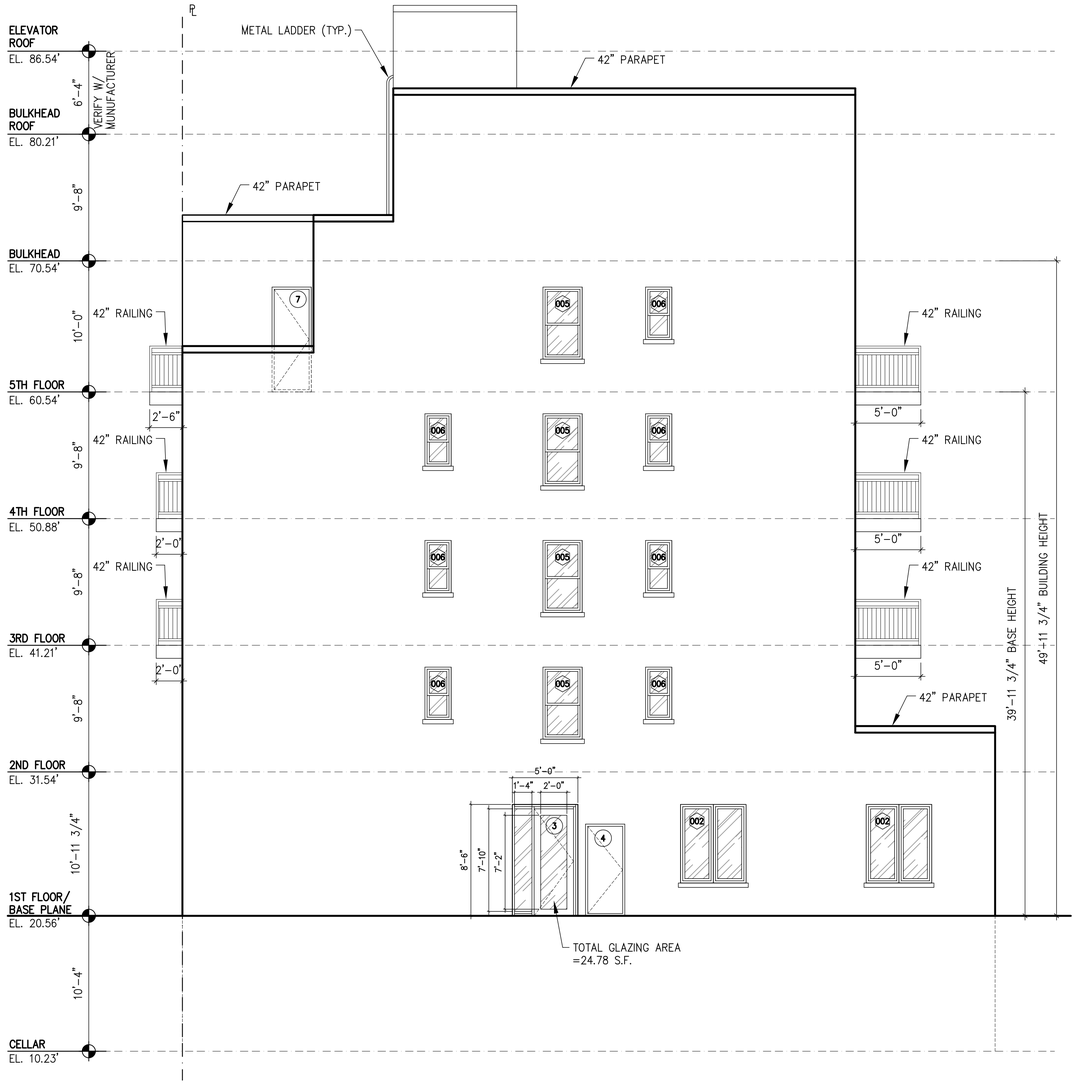
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SHEET 13 OF 25

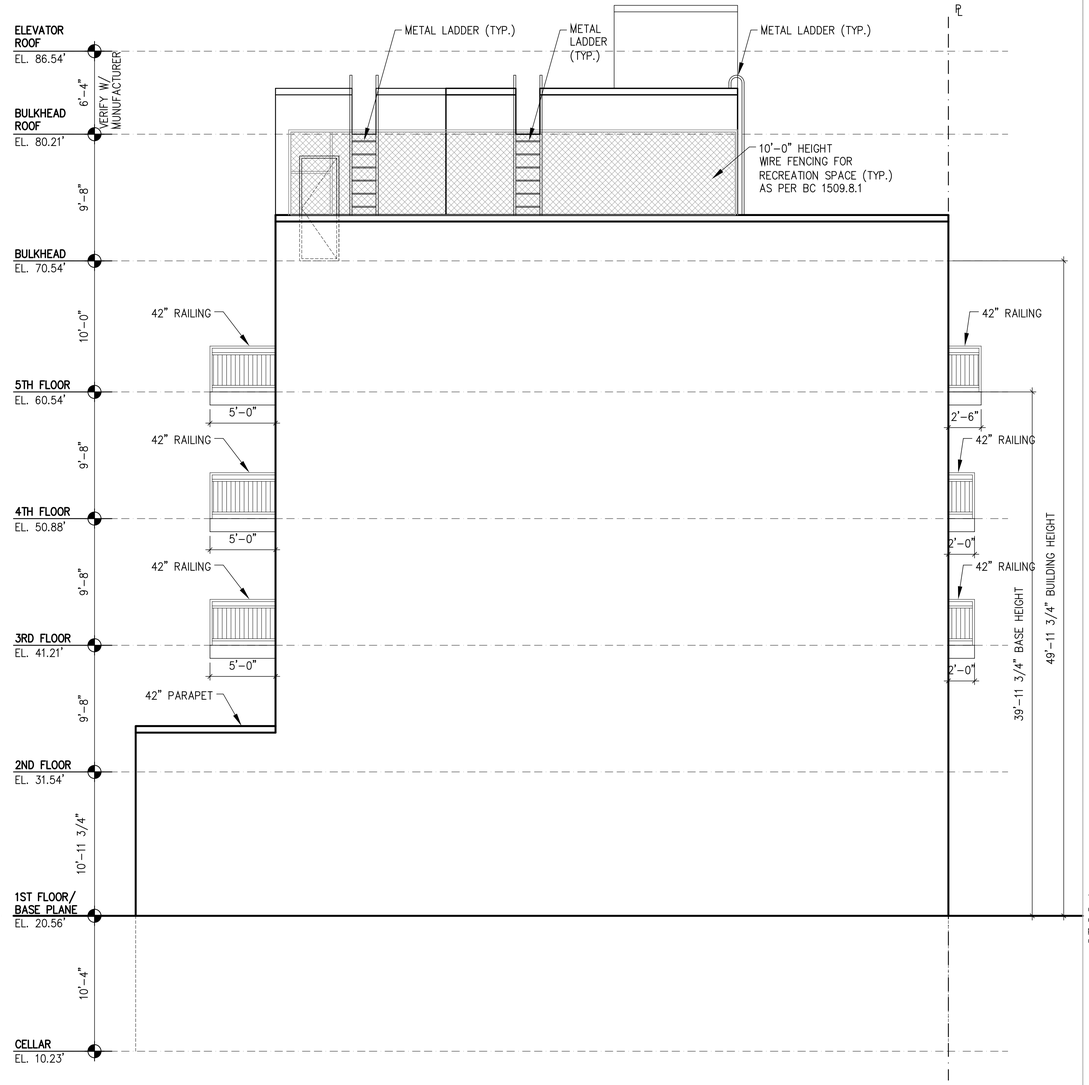
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1 A-202 **SIDE ELEVATION**
SCALE: 3/16"=1'-0"



2 A-202 **SIDE ELEVATION**
SCALE: 3/16"=1'-0"

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BROOKLYN NY 11223

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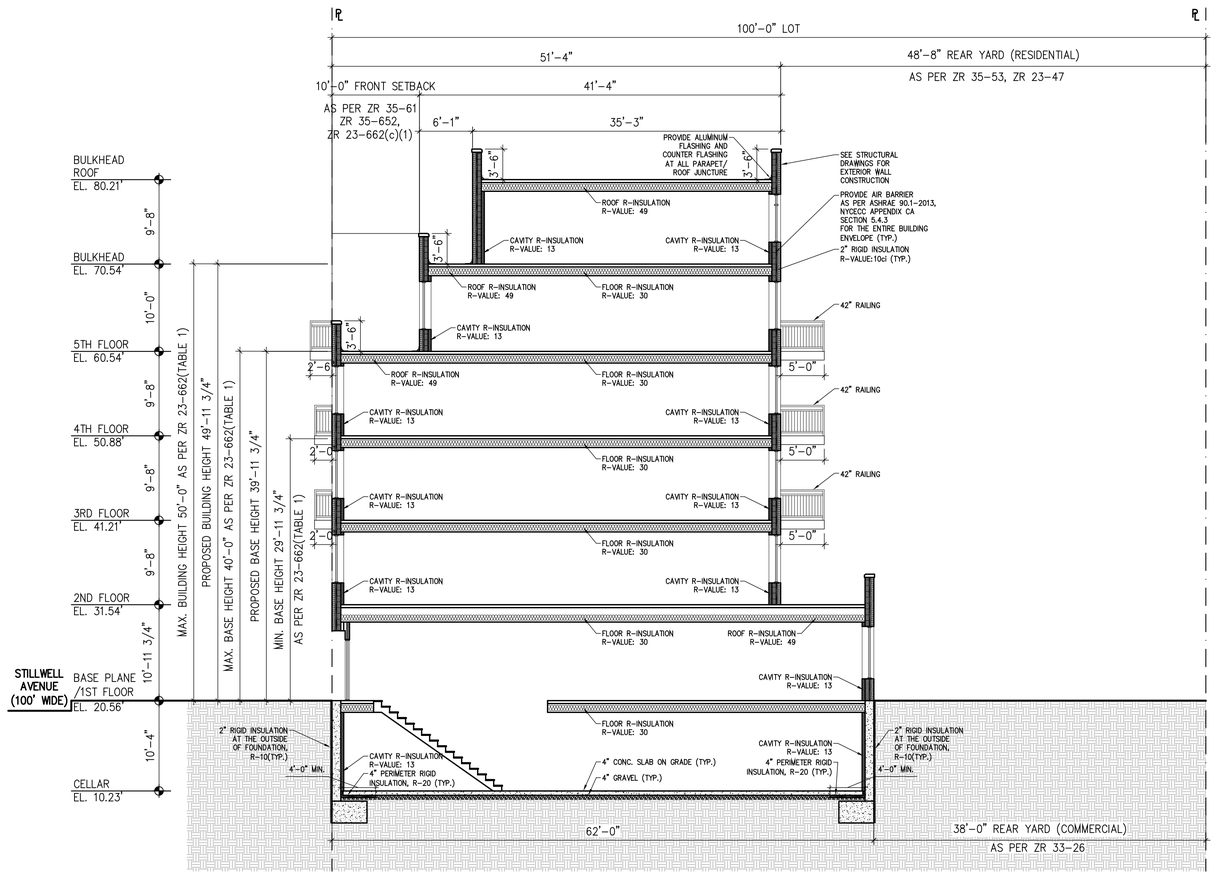
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SHEET 14 OF 25

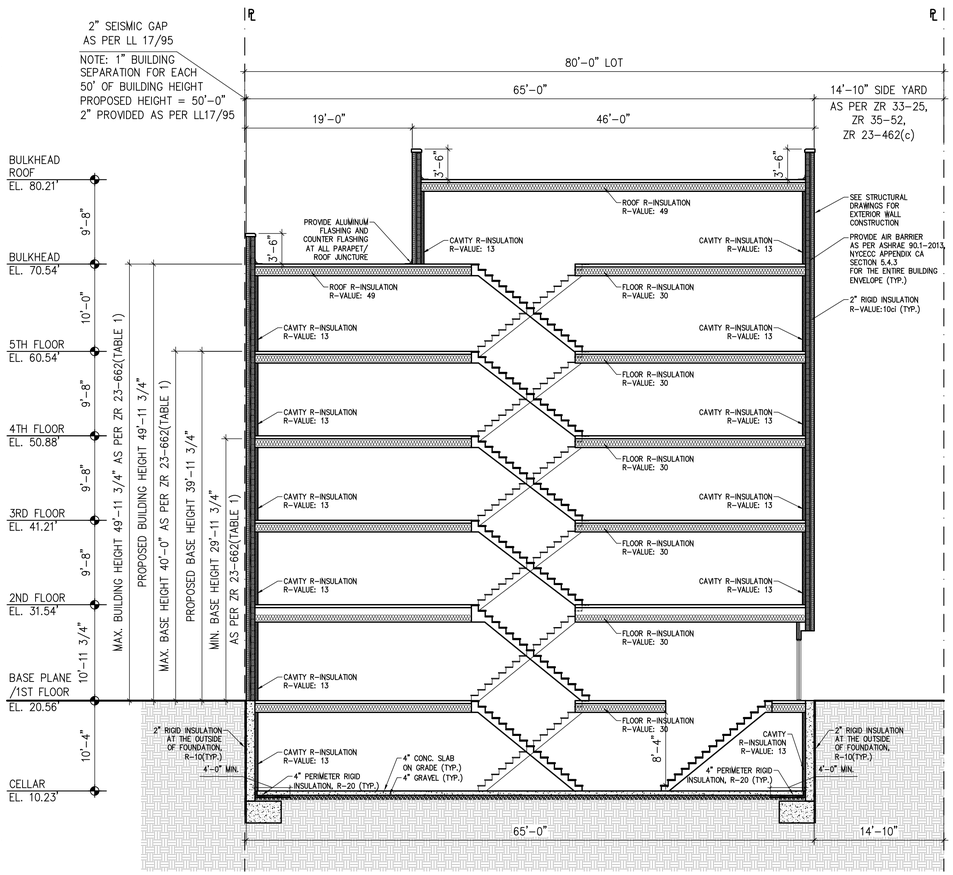
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A A-301 **LONG SECTION**
SCALE: 1/8"=1'-0"



B A-301 **CROSS SECTION**
SCALE: 1/8"=1'-0"

NOTE: STRUCTURAL MEMBERS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY, SEE STRUCTURAL DRAWINGS FOR STRUCTURAL CONSTRUCTION.

NOTE: SEE ELEVATOR SHOP DRAWINGS FOR ELEVATOR PIT AND HEADROOM DETAILS.

NOTE:
1. ALL INSULATIONS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
2. INSULATION IN CONTACT WITH THE GROUND HAS LESS THAN OR EQUAL TO 0.3% WATER ABSORPTION RATE PER ASTM C272.
3. BOTTOM SURFACE OF FLOOR STRUCTURES INCORPORATING RADIANT HEATING SHALL BE INSULATED TO GREATER OR EQUAL TO R-3.5.
4. INSULATION SHALL BE INSTALLED IN A PERMANENT MANNER IN SUBSTANTIAL CONTACT WITH THE INSIDE SURFACE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR THE FRAMING SYSTEM USED. FLEXIBLE BATT INSULATION INSTALLED IN FLOOR CAVITIES SHALL BE SUPPORTED IN A PERMANENT MANNER BY SUPPORTS NO GREATER THAN 24 IN. ON CENTER.
5. LIGHTING FIXTURES; HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT, INCLUDING WALL HEATERS, DUCTS, AND PLENUMS; AND OTHER EQUIPMENT SHALL NOT BE RECESSED IN SUCH A MANNER AS TO AFFECT THE INSULATION THICKNESS.
6. EXTERIOR INSULATION SHALL BE COVERED WITH A PROTECTIVE MATERIAL TO PREVENT DAMAGE FROM SUNLIGHT, MOISTURE, LANDSCAPING OPERATIONS, EQUIPMENT MAINTENANCE, AND WIND.
7. THE ROOF INSULATION SHALL NOT BE INSTALLED ON A SUSPENDED CEILING WITH REMOVABLE CEILING PANELS.

AS PER ASHRAE 90.1-2013, NYCECC APPENDIX CA SECTION 5.4.3
THE ENTIRE BUILDING ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED WITH A CONTINUOUS AIR BARRIER, AND SHALL COMPLY WITH SECTION 5.4.3.1 THRU SECTION 5.4.3.5

AS PER ASHRAE 90.1-2013, NYCECC APPENDIX CA SECTION 5.4.3.5
NEW BUILDINGS 25,000 SQUARE FEET (2322.6 M^2) AND GREATER, BUT LESS THAN 50,000 SQUARE FEET (4645.2 M^2), AND LESS THAN OR EQUAL TO 75 FEET (22.86 M) IN HEIGHT MUST SHOW COMPLIANCE THROUGH TESTING IN ACCORDANCE WITH ASTM E 779 AND DEPARTMENT RULES.

ARCHITECT

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

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BROOKLYN NY 11223

DRAWING TITLE

PROPOSED SECTIONS

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SEAL

DRAWING NUMBER

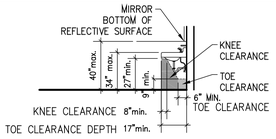
A-301.00

SHEET 15 OF 25

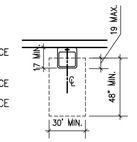
Orient and affix BIS job number label here.

DOB STAMP

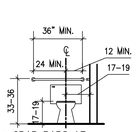
PRELIMINARY,
FOR INFORMATION ONLY
NOT FOR CONSTRUCTION



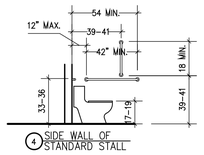
1 LAVATORY CLEARANCES



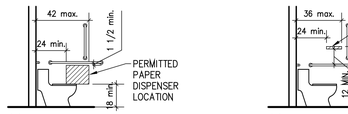
2 CLEAR FLOOR SPACE AT LAVATORIES



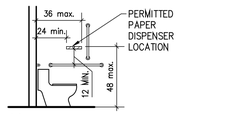
3 GRAB BARS AT WATER CLOSETS



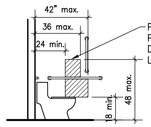
4 SIDE WALL OF STANDARD STALL



(a) PROTRUDING DISPENSER BELOW GRAB BAR

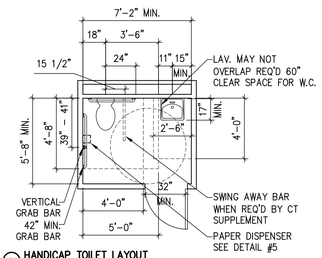


(b) PROTRUDING DISPENSER ABOVE GRAB BAR

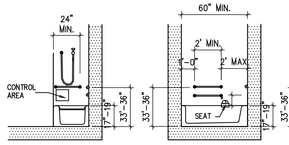


(c) RECESSED DISPENSER

5 DISPENSER OUTLET LOCATION STANDARD STALL



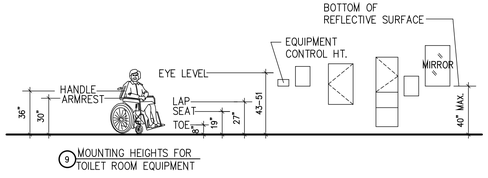
14 HANDICAP TOILET LAYOUT AS PER ANSI A117.1 2009



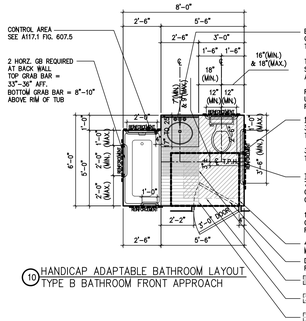
6 GRAB BARS AT BATHTUB (FOOT)

7 GRAB BARS AT BATHTUB (BACK)

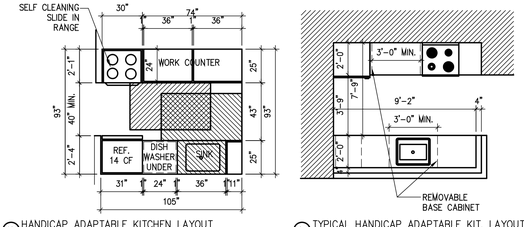
8 GRAB BARS AT BATHTUB (HEAD)



9 MOUNTING HEIGHTS FOR TOILET ROOM EQUIPMENT

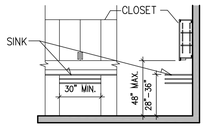


10 HANDICAP ADAPTABLE BATHROOM LAYOUT TYPE B BATHROOM FRONT APPROACH



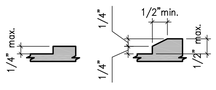
11 HANDICAP ADAPTABLE KITCHEN LAYOUT GALLEY TYPE 'K3C'

12 TYPICAL HANDICAP ADAPTABLE KIT. LAYOUT

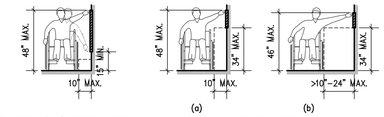


13 ADAPTABLE KITCHEN SINK AND CLOSET ELEVATION

ICC/ANSI A 117.1 2009 TOILET (AS PER CHAPTER 6)

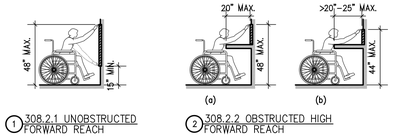


CHANGE IN FLOOR LEVEL



1 308.3.1 UNOBSTRUCTED SIDE REACH

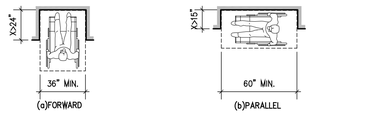
2 308.3.2 OBSTRUCTED HIGH SIDE REACH



1 308.2.1 UNOBSTRUCTED FORWARD REACH

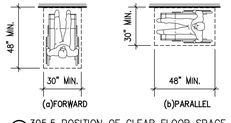
2 308.2.2 OBSTRUCTED HIGH FORWARD REACH

ICC/ANSI A 117.1 2009 REACH RANGES



1 305.7(a) CLEARANCE IN AN ALCOVE, FORWARD APPROACH

2 305.7(b) CLEARANCE IN AN ALCOVE, PARALLEL APPROACH



1 305.5 POSITION OF CLEAR FLOOR SPACE

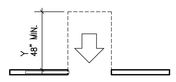
ICC/ANSI A 117.1 2009 CLEAR FLOOR SPACE

HANDICAPPED TOILET NOTES AS PER ICC/ANSI A117.1 2009:

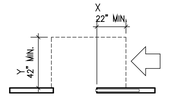
1. THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES (405 MM) MINIMUM TO 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION. WATER CLOSETS LOCATED IN AMBULATORY ACCESSIBLE COMPARTMENTS SPECIFIED IN SECTION 604.9 SHALL HAVE THE CENTERLINE OF THE WATER CLOSET 17 INCHES (430 MM) MINIMUM TO 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION.
2. A CLEARANCE AROUND A WATER CLOSET 60 INCHES (1525 MM) MINIMUM, MEASURED PERPENDICULAR FROM THE SIDEWALL, AND 56 INCHES (1420 MM) MINIMUM, MEASURED PERPENDICULAR FROM THE REAR WALL, SHALL BE PROVIDED.
3. THE HEIGHT OF WATER CLOSET SEATS SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
4. FIXED SIDE– WALL GRAB BARS SHALL BE 42 INCHES (1065 MM) MINIMUM IN LENGTH, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES (1370 MM) MINIMUM FROM THE REAR WALL. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES (455 MM) MINIMUM IN LENGTH SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 INCHES (990 MM) AND 41 INCHES (1040 MM) ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES (990 MM) AND 41 INCHES (1040 MM) FROM THE REAR WALL.
5. THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) MINIMUM IN LENGTH, AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) MINIMUM ON THE SIDE CLOSEST TO THE WALL, AND 24 INCHES (610 MM) MINIMUM ON THE TRANSFER SIDE.
6. WHERE SWING–UP GRAB BARS ARE INSTALLED, A CLEARANCE OF 18 INCHES (455 MM) MINIMUM FROM THE CENTERLINE OF THE WATER CLOSET TO ANY SIDE WALL OR OBSTRUCTION SHALL BE PROVIDED. A SWING–UP GRAB BAR SHALL BE INSTALLED WITH THE CENTERLINE OF THE GRAB BAR 15 WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO/4 INCHES (400 MM) FROM THE CENTERLINE OF THE WATER CLOSET. SWING–UP GRAB BARS SHALL BE 28 INCHES (710 MM) MINIMUM IN LENGTH, MEASURED FROM THE WALL TO THE END OF THE HORIZONTAL PORTION OF THE GRAB BAR.
7. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 309.4. WHERE THE DISPENSER IS LOCATED ABOVE THE GRAB BAR, THE OUTLET OF THE DISPENSER SHALL BE LOCATED WITHIN AN AREA 24 INCHES (610 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM FROM THE REAR WALL. WHERE THE DISPENSER IS LOCATED BELOW THE GRAB BAR, THE OUTLET OF THE DISPENSER SHALL BE LOCATED WITHIN AN AREA 24 INCHES (610 MM) MINIMUM AND 42 INCHES (1065 MM) MAXIMUM FROM THE REAR WALL. THE OUTLET OF THE DISPENSER SHALL BE LOCATED 18 INCHES (455 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FLOOR. DISPENSERS SHALL COMPLY WITH SECTION 609.3. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.

OPERABLE PARTS NOTES AS PER ICC/ANSI A117.1 2009 SECTION 309:

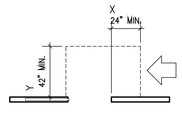
1. CLEAR FLOOR SPACE.
A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 SHALL BE PROVIDED.
2. HEIGHT.
OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 308.
3. OPERATION.
OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS (22.2 N) MAXIMUM.
EXCEPTION: GAS PUMP NOZZLES SHALL NOT BE REQUIRED TO PROVIDE OPERABLE PARTS THAT HAVE AN ACTIVATING FORCE OF 5.0 POUNDS (22.2 N) MAXIMUM.



1 FRONT APPROACH SLIDING OR FOLDING DOORS



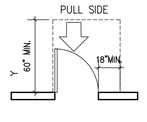
2 POCKET OR HINGE APPROACH SLIDING OR FOLDING DOORS



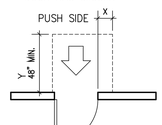
3 STOP OR LATCH APPROACH SLIDING OR FOLDING DOORS

SLIDING AND FOLDING DOORS (FIG. 404.2.3.3)

NOTE: X = 12" MIN. IF DOOR HAS BOTH A CLOSER AND LATCH
Y = 54" MIN. IF DOOR HAS CLOSER

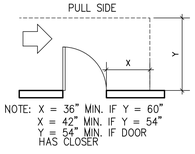


1 FRONT APPROACH SWINGING DOOR

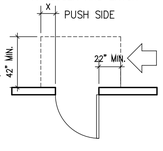


2 FRONT APPROACH SWINGING DOOR

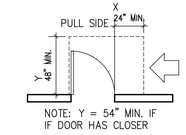
NOTE: X = 12" MIN. IF DOOR HAS BOTH A CLOSER AND LATCH
Y = 48" MIN IF DOOR HAS BOTH A CLOSER AND LATCH



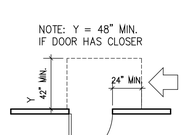
3 HINGE SIDE APPROACH SWINGING DOOR



4 HINGE SIDE APPROACH SWINGING DOOR



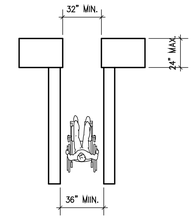
5 LATCH SIDE APPROACH SWINGING DOOR



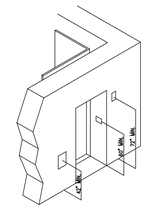
6 LATCH SIDE APPROACH SWINGING DOOR

SWINGING DOORS (FIG. 404.2.3.2)

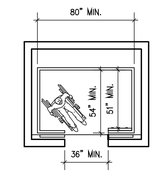
ICC/ANSI A 117.1 2009 MANEUVERING CLEARANCE AT DOORS



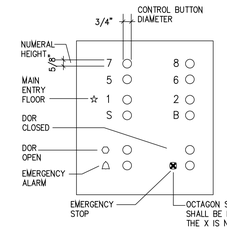
1 MINIMUM CLEAR WIDTH FOR SINGLW WHEEL CHAIR



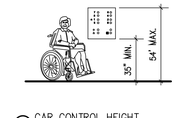
2 HOISTWAY AND ELEVATOR ENTRANCES



3 MINIMUM DIMENSIONS FOR ELEVATOR CAR



4 PANEL DETAIL



5 CAR CONTROL HEIGHT

ICC/ANSI A 117.1 ELEVATOR

ARCHITECT

CITY BUILDING NY ARCHITECT P.C.
802 64th Street, #3
Brooklyn, NY 11220
Tel.: (718) 836-1828
Fax.: (718) 836-1707
8361828@gmail.com

STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

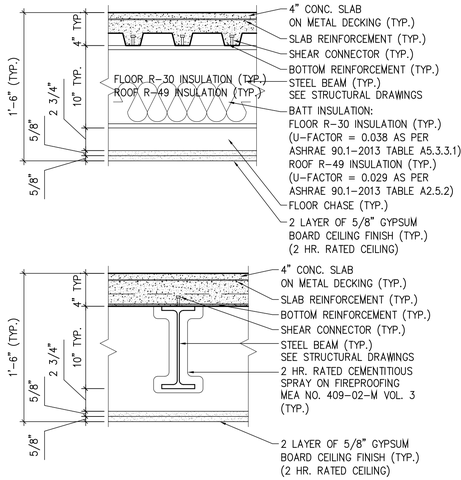
1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

TYPICAL ADA DETAILS

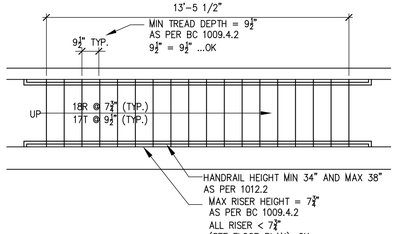
REVISIONS

NO.	DATE	DESCRIPTION



FLOOR AND CEILING DETAILS (MIN. 2 HR. RATED FOR IB AS PER TABLE 601) UL NUMBER: D502

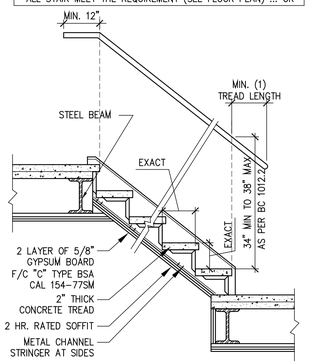
SCALE: N.T.S



TYPICAL STAIR DETAIL (AS PER BC 1009)

SCALE: N.T.S.

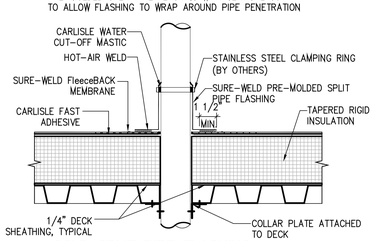
SUM OF TREAD AND TWO RISER SHALL BE NOT LESS THAN 24 INCHES NOR MORE THAN 25.5" INCHES AS PER BC 1009.4.2
ALL STAIR MEET THE REQUIREMENT (SEE FLOOR PLAN) ... OK



TYPICAL STAIR DETAIL (AS PER BC 1009)

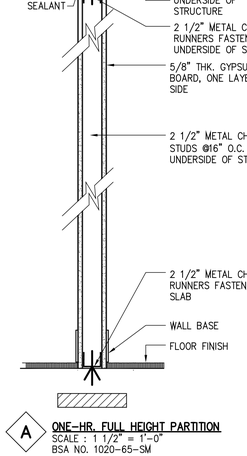
SCALE: N.T.S.

PRE-MOLDED SPLIT PIPE FLASHING WITH VERTICAL CUT TO ALLOW FLASHING TO WRAP AROUND PIPE PENETRATION

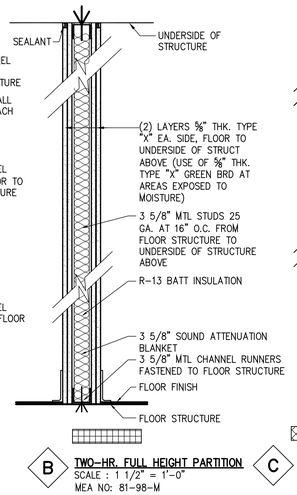


COLD SPLIT PIPE FLASHING

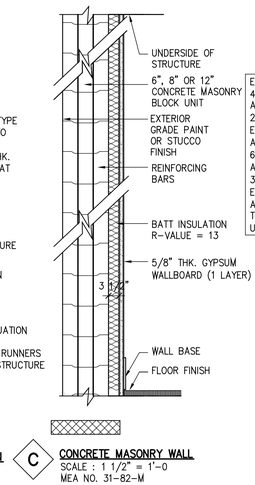
SCALE: N.T.S.



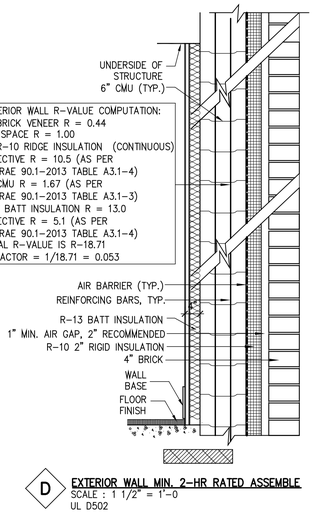
A ONE-HR. FULL HEIGHT PARTITION
SCALE : 1 1/2" = 1'-0"
BSA NO. 1020-65-SM



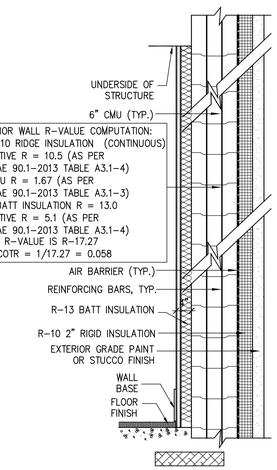
B TWO-HR. FULL HEIGHT PARTITION
SCALE : 1 1/2" = 1'-0"
MEA NO: 81-98-M
UL DESIGN U419 55 STC

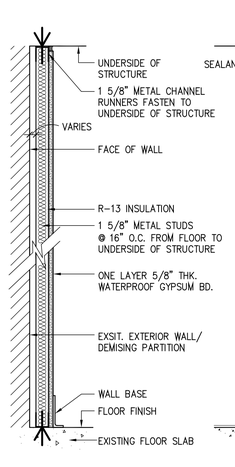


C CONCRETE MASONRY WALL
SCALE : 1 1/2" = 1'-0
MEA NO. 31-82-M

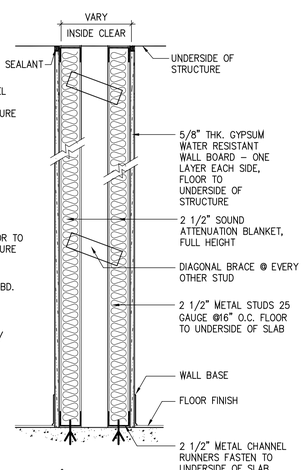


D EXTERIOR WALL MIN. 2-HR RATED ASSEMBLE
SCALE : 1 1/2" = 1'-0
UL D502

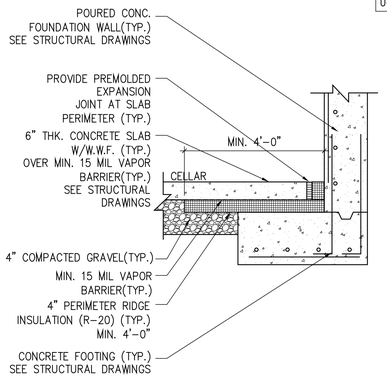




F FURRED-OUT PARTITION
SCALE: 1 1/2" = 1'-0"



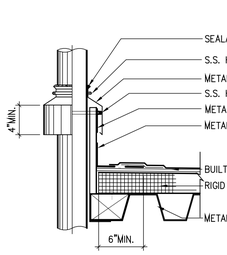
G CHASE WALL DETAIL
SCALE : 1 1/2" = 1'-0"
MEA 203-93-M



FOOTING DETAIL (TYP.)

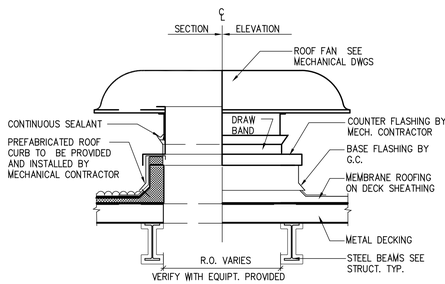
SCALE: N.T.S.

NOTE: INSULATION MATERIAL SHALL COMPLY WITH BC 719.1.1.
INSULATION MATERIAL SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25, A SMOKE-DEVELOPMENT INDEX NOT GREATER THAN 50, TESTED ACCORDANCE WITH ASTM E 84.



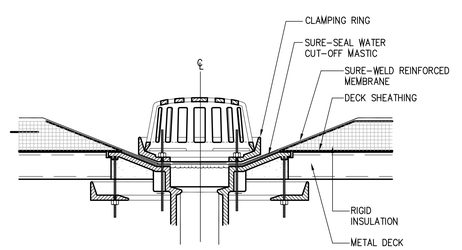
ROOF DETAIL AT HOT PIPE PENETRATION

SCALE: N.T.S



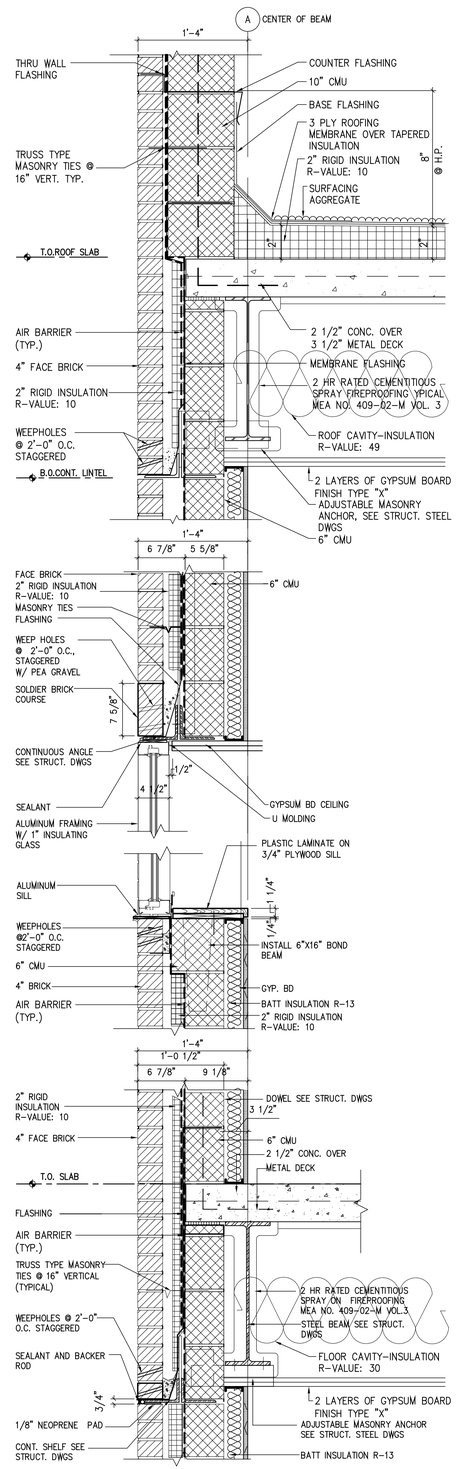
EXHAUST FAN CURB DETAIL

SCALE: N.T.S



TYPICAL ROOF DRAIN

SCALE: N.T.S



1 TYPICAL EXTERIOR WALL DETAIL
2 HR RATED ASSEMBLY
UL NUMBER: D502
SCALE: N.T.S

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PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
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TYPICAL DETAILS

REVISIONS

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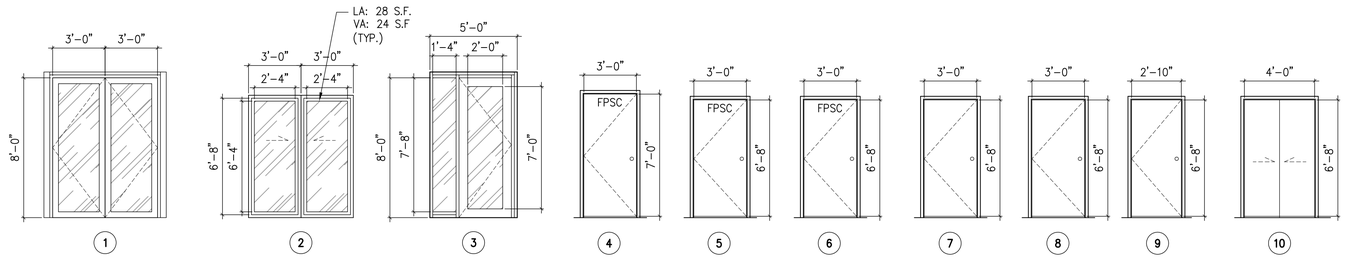
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SHEET 17 OF 25

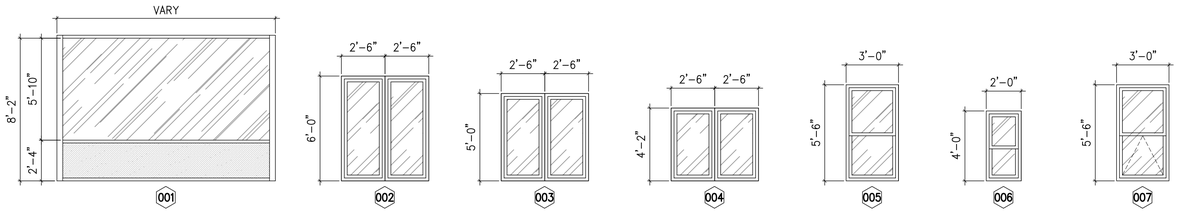
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DOOR SCHEDULE									
NO.	DOOR TYPE	SIZE			CONST.	FRAME CONST.	ASHRAE 90.1-2013, NYCECC APPENDIX CA TABLE 5.5-4 U-FACTOR & SHGC	ASHRAE 90.1-2013 NYCECC APPENDIX CA SECTION 5.4.3.2 AIR LEAKAGE	REMARKS
		WIDTH	HEIGHT	THK.					
1	DOUBLE HINGED	3'-0"X2	8'-0"	1.5"	GLASS	ALUM	U-FACTOR = 0.36, SHGC = 0.29	< 0.20 CFM/FT²	BUILDING ENTRANCE DOOR, PROVIDE SELF-CLOSING DEVICE
2	SLIDING	3'-0"X2	6'-8"	1.5"	GLASS	ALUM	U-FACTOR = 0.36, SHGC = 0.21	< 0.20 CFM/FT²	
3	SINGLE HINGED	3'-0"	8'-0"	1.5"	GLASS	ALUM	U-FACTOR = 0.36, SHGC = 0.21	< 0.20 CFM/FT²	BUILDING ENTRANCE DOOR WITH SIDE LITE, PROVIDE SELF-CLOSING DEVICE, MIN. TOTAL GLAZING AREA 20 S.F.
4	SINGLE HINGED	3'-0"	7'-0"	1.5"	STEEL	STEEL	U-FACTOR = 0.42	< 0.20 CFM/FT²	FPSC DOOR, 1 1/2 HOUR RATED
5	SINGLE HINGED	3'-0"	6'-8"	1.5"	STEEL	STEEL	U-FACTOR = 0.42	< 0.20 CFM/FT²	FPSC DOOR, 1 1/2 HOUR RATED
6	SINGLE HINGED	3'-0"	6'-8"	1.5"	STEEL	STEEL	U-FACTOR = 0.42	< 0.20 CFM/FT²	FPSC DOOR, 1 1/2 HOUR RATED, PROVIDE PEEPHOLE
7	SINGLE HINGED	3'-0"	6'-8"	1.5"	STEEL	STEEL	U-FACTOR = 0.42	< 0.20 CFM/FT²	
8	SINGLE HINGED	3'-0"	6'-8"	1.5"	WOOD	WOOD	U-FACTOR = 0.33	< 0.20 CFM/FT²	
9	SINGLE HINGED	2'-10"	6'-8"	1.5"	WOOD	WOOD	U-FACTOR = 0.33	< 0.20 CFM/FT²	
10	SLIDING	4'-0"	6'-8"	1.5"	WOOD	WOOD	U-FACTOR = 0.33	< 0.20 CFM/FT²	
NOTE: ALL EXTERIOR DOORS SHALL BE CERTIFIED BY NFRC AND HAVE PERFORMANCE RATINGS EQUAL OR BETTER THAN LISTED IN THIS DOOR SCHEDULE									



WINDOW SCHEDULE									
NO.	WINDOW TYPE	SIZE		CONST.	GLASS	FINISH	ASHRAE 90.1-2013, NYCECC APPENDIX CA TABLE 5.5-4 U-FACTOR & SHGC	ASHRAE 90.1-2013 NYCECC APPENDIX CA SECTION 5.4.3.2 AIR LEAKAGE	REMARKS
		WIDTH	HEIGHT						
001	STOREFRONT	VARY	8'-2"	ALUM	INSULATED	PAINT	U-FACTOR = 0.34, SHGC = 0.24	< 0.06 CFM/FT²	DOUBLE GLAZED INSULATED
002	SLIDING	5'-0"	6'-0"	VINYL	INSULATED	PAINT	U-FACTOR = 0.29, SHGC = 0.28	< 0.20 CFM/FT²	DOUBLE GLAZED INSULATED
003	CASEMENT	5'-0"	5'-0"	VINYL	INSULATED	PAINT	U-FACTOR = 0.28, SHGC = 0.32	< 0.20 CFM/FT²	DOUBLE GLAZED INSULATED
004	CASEMENT	5'-0"	4'-2"	VINYL	INSULATED	PAINT	U-FACTOR = 0.28, SHGC = 0.32	< 0.20 CFM/FT²	DOUBLE GLAZED INSULATED
005	DOUBLE HUNG	3'-0"	5'-6"	VINYL	INSULATED	PAINT	U-FACTOR = 0.28, SHGC = 0.32	< 0.20 CFM/FT²	DOUBLE GLAZED INSULATED
006	DOUBLE HUNG	2'-0"	4'-0"	VINYL	INSULATED	PAINT	U-FACTOR = 0.28, SHGC = 0.32	< 0.20 CFM/FT²	DOUBLE GLAZED INSULATED
007	SINGLE HUNG	3'-0"	5'-6"	VINYL	INSULATED	PAINT	U-FACTOR = 0.28, SHGC = 0.32	< 0.20 CFM/FT²	DOUBLE GLAZED INSULATED, SMOKE VENT TYPE
NOTE: ALL WINDOWS SHALL BE CERTIFIED BY NFRC AND HAVE PERFORMANCE RATINGS EQUAL OR BETTER THAN LISTED IN THIS WINDOW SCHEDULE									

NOTE
1. AIR LEAKAGE: PROVIDE FLASHING, WINDOW DAMNS AND SEALANT, CAULKING AT WINDOW TO CREATE AIR BARRIER

2 AIR LEAKAGE: WEATHER STRIPPING AND INSULATION FOR ROOF HATCH DOOR

3. USE MANUFACTURE DOOR AS NOTED IN THE DRAWING FOR PROPER AIR LEAKAGE RATING.

4. SEE MANUFACTURING DETAIL FOR PROPER WINDOW AND DOOR INSTALLATION

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

PROPOSED DOOR AND WINDOW SCHEDULES

REVISIONS

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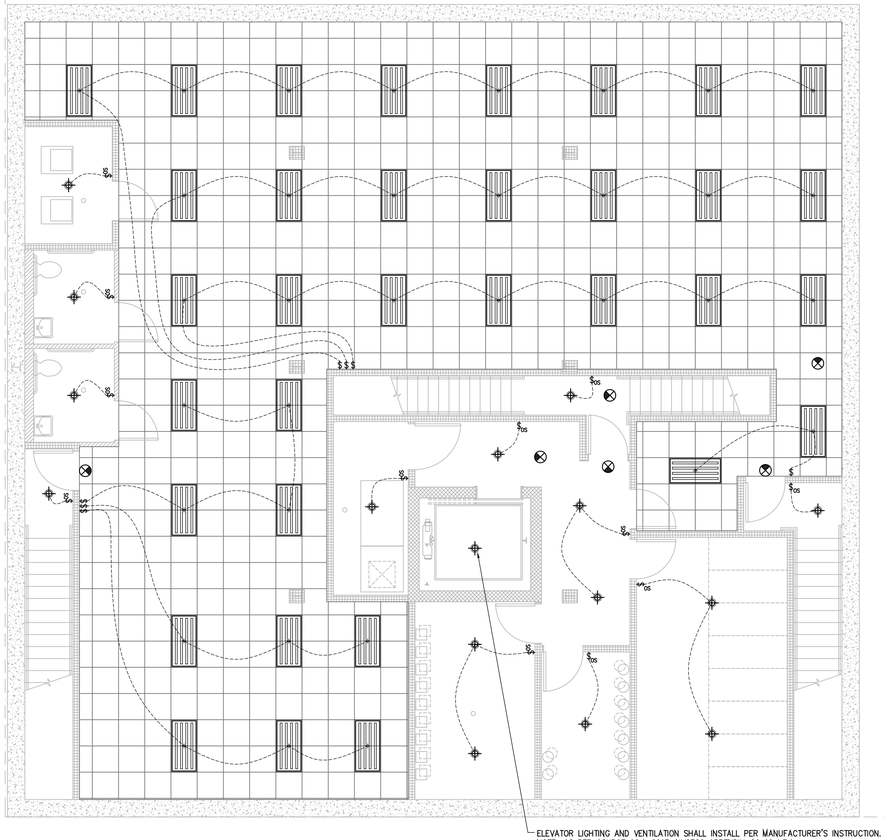
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SHEET 18 OF 25

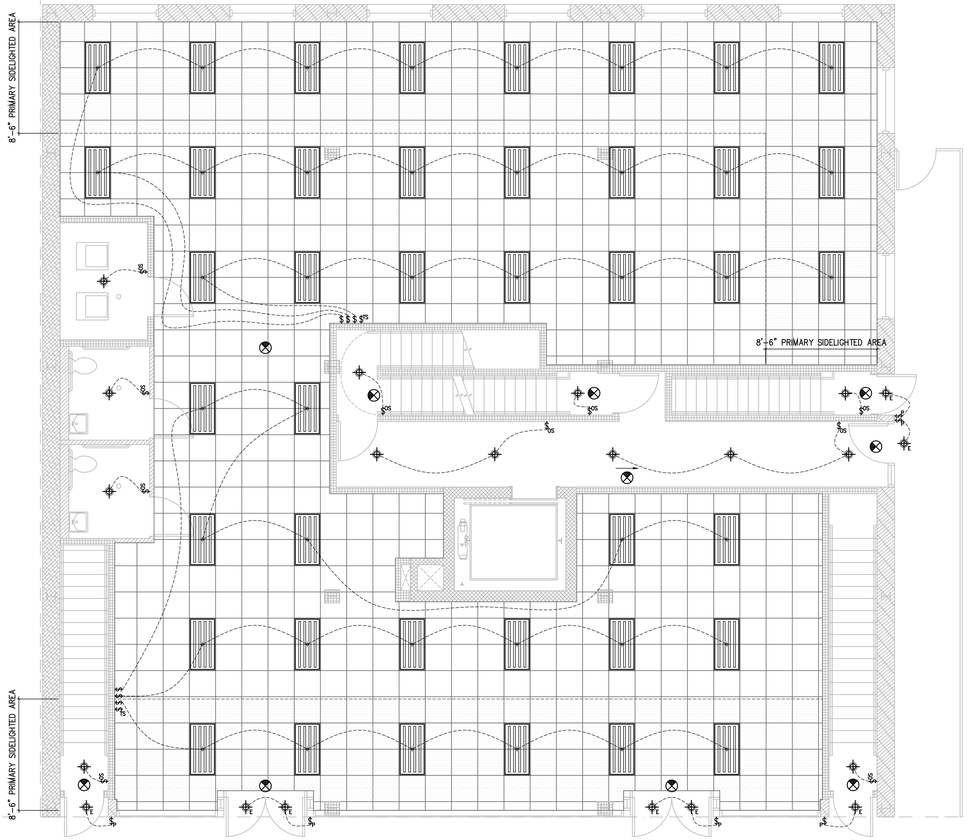
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PROPOSED CELLAR REFLECTIVE CEILING PLAN
SCALE: 3/16" = 1'–0"



PROPOSED 1ST FLOOR REFLECTIVE CEILING PLAN
SCALE: 3/16" = 1'–0"

NOTE: RETAIL SPACES SHALL NOT REQUIRED TO PROVIDE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS FOR SIDELIGHTING AS PER SECTION 9.4.1.1(e) EXCEPTION 3

LEGEND

L1
LED DOWNLIGHT
POWER: 12.5 WATT/FIXTURE
1,000 LUMENS PER FIXTURE

MANUFACTURE: CREE
INPUT: AC 120V
MODEL NUMBER:
LR6–DR1000
LED LIGHT DO NOT
NEED BALLAST

E
LED LIGHT
POWER: 8 WATT/FIXTURE
630 LUMENS PER FIXTURE

MANUFACTURE: HAMPTON BAY
INPUT: AC 120V
MODEL NUMBER:
IZH1691L–2
LED LIGHT DO NOT
NEED BALLAST

L2
4 FEET T12 LINEAR LED TUBE
POWER: 20 WATT X 4
2,100 LUMENS X 4

MANUFACTURE: PHILIPS
INPUT: AC 120V
DESCRIPTION: 4 FEET T12 LINEAR
LED TUBE (20 WATT X 4)
LED LIGHT DO NOT
NEED BALLAST

FIRE–RATED ACOUSTICAL LAY–IN CEILING TILES AND GRID
MANUFACTURER: ARMSTRONG
SERIES: ULTIMA #1912
SIZE: 24" x 24" x 3/4"
EDGE PROFILE: BEVELED TEGULAR
GRID SYSTEM: SUPRAFINE XL 9/16" EXPOSED TEE

EXIT SIGN, MAX. 5 WATTS PER FACE (AS PER ASHRAE 90.1–2013, NYCECC APPENDIX CA SECTION 9.4.3)
INDICATES FACE OF SIGN
INDICATES DIRECTION

DAYLIGHT ZONE

$ INTERIOR LIGHTING CONTROL AS PER SECTION 9.4.1.1(a) AND AND TABLE 9.6.1

$OS OCCUPANCY SENSORS TURN OFF LIGHTS WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE, AND WITH MANUAL ON/OFF SWITCH AS PER SECTION 9.4.1.1(h) AND TABLE 9.6.1, SEE ADDITIONAL NOTES ON RCP–004

$TS AUTOMATIC TIME SWITCH WITH OVERIDE SWITCHING DEVICE THAT CONTROL ALL LIGHTING WITHIN EACH SPACE, AS PER 9.4.1.1(i) AND TABLE 9.6.1. SEE ADDITIONAL NOTES ON RCP–004.

$P PHOTOSENSORS AND TIME SWITCH FOR EXTERIRO LIGHTING AS PER 9.4.1.4

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

PROPOSED REFLECTIVE CEILING PLANS

REVISIONS

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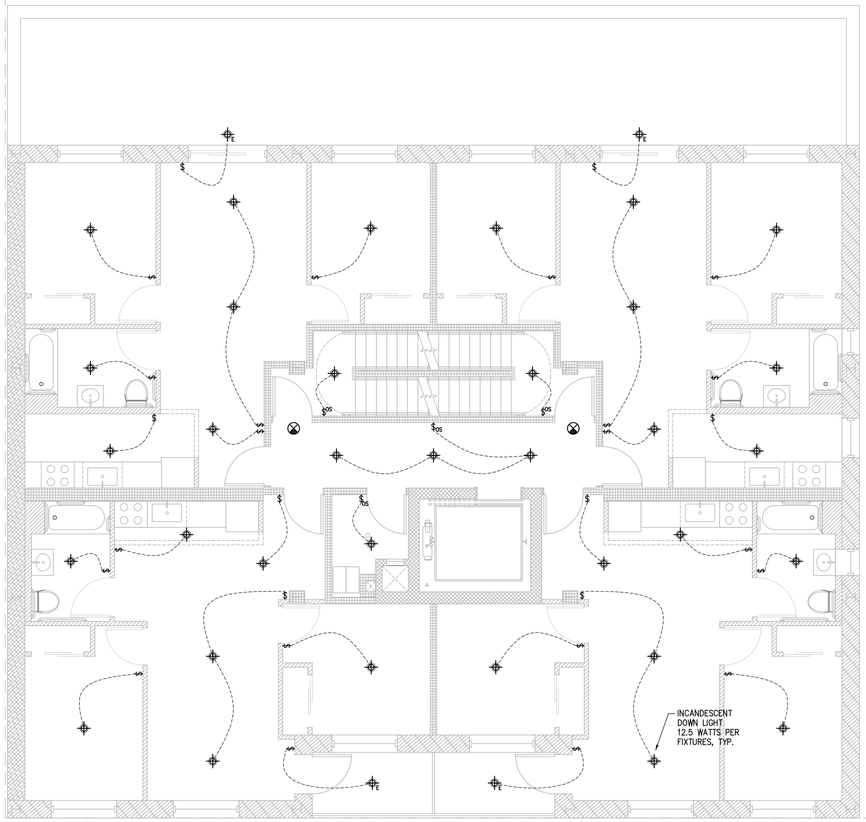
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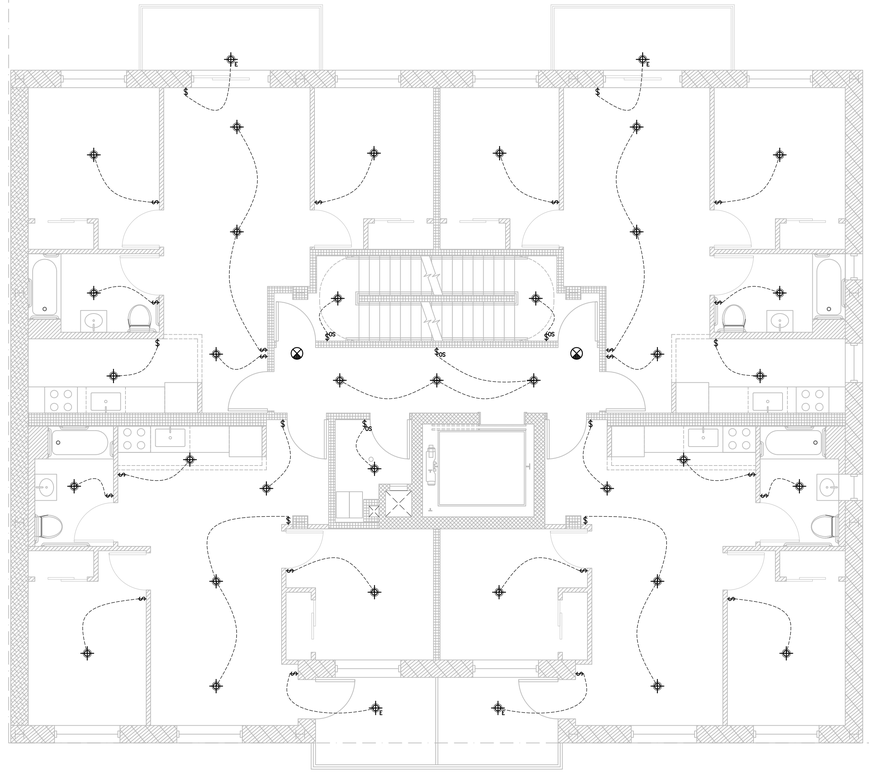
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PROPOSED 2ND FLOOR REFLECTIVE CEILING PLAN
SCALE: 3/16" = 1'-0"



PROPOSED 3RD AND 4TH FLOOR REFLECTIVE CEILING PLAN
SCALE: 3/16" = 1'-0"

LEGEND

L1
LED DOWNLIGHT
POWER: 12.5 WATT/FIXTURE
1,000 LUMENS PER FIXTURE

MANUFACTURE: CREE
INPUT: AC 120V
MODEL NUMBER:
LR6-DR1000
LED LIGHT DO NOT
NEED BALLAST

E
LED LIGHT
POWER: 8 WATT/FIXTURE
630 LUMENS PER FIXTURE

MANUFACTURE: HAMPTON BAY
INPUT: AC 120V
MODEL NUMBER:
IZH1691L-2
LED LIGHT DO NOT
NEED BALLAST

L2
4 FEET T12 LINEAR LED TUBE
POWER: 20 WATT X 4
2,100 LUMENS X 4

MANUFACTURE: PHILIPS
INPUT: AC 120V
DESCRIPTION: 4 FEET T12 LINEAR
LED TUBE (20 WATT X 4)
LED LIGHT DO NOT
NEED BALLAST

FIRE-RATED ACOUSTICAL LAY-IN CEILING TILES AND GRID
MANUFACTURER: ARMSTRONG
SERIES: ULTIMA #1912
SIZE: 24" x 24" x 3/4"
EDGE PROFILE: BEVELED TEGULAR
GRID SYSTEM: SUPRAFINE XL 9/16" EXPOSED TEE

EXIT SIGN, MAX. 5 WATTS PER FACE (AS PER ASHRAE 90.1-2013, NYCECC APPENDIX CA SECTION 9.4.3)
INDICATES FACE OF SIGN
INDICATES DIRECTION

DAYLIGHT ZONE

$ INTERIOR LIGHTING CONTROL AS PER SECTION 9.4.1.1(a) AND AND TABLE 9.6.1

$OS OCCUPANCY SENSORS TURN OFF LIGHTS WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE, AND WITH MANUAL ON/OFF SWITCH AS PER SECTION 9.4.1.1(h) AND TABLE 9.6.1, SEE ADDITIONAL NOTES ON RCP-004

$TS AUTOMATIC TIME SWITCH WITH OVERIDE SWITCHING DEVICE THAT CONTROL ALL LIGHTING WITHIN EACH SPACE, AS PER 9.4.1.1(i) AND TABLE 9.6.1. SEE ADDITIONAL NOTES ON RCP-004.

$P PHOTOSENSORS AND TIME SWITCH FOR EXTERIRO LIGHTING AS PER 9.4.1.4

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STRUCTURAL ENGINEER

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1665 STILLWELL AVENUE
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DRAWING TITLE

PROPOSED REFLECTIVE CEILING PLANS

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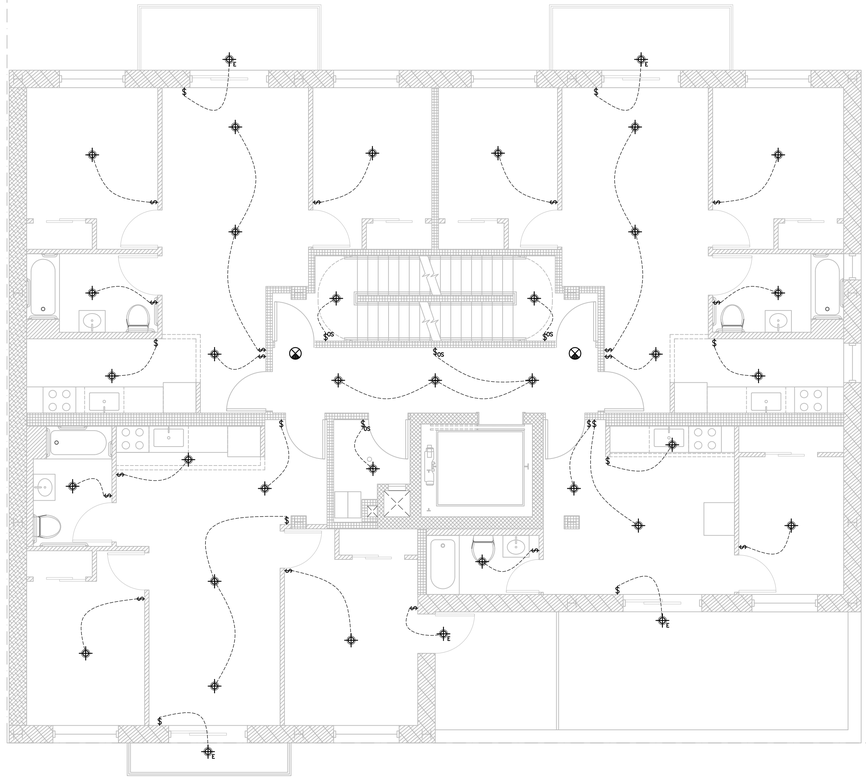
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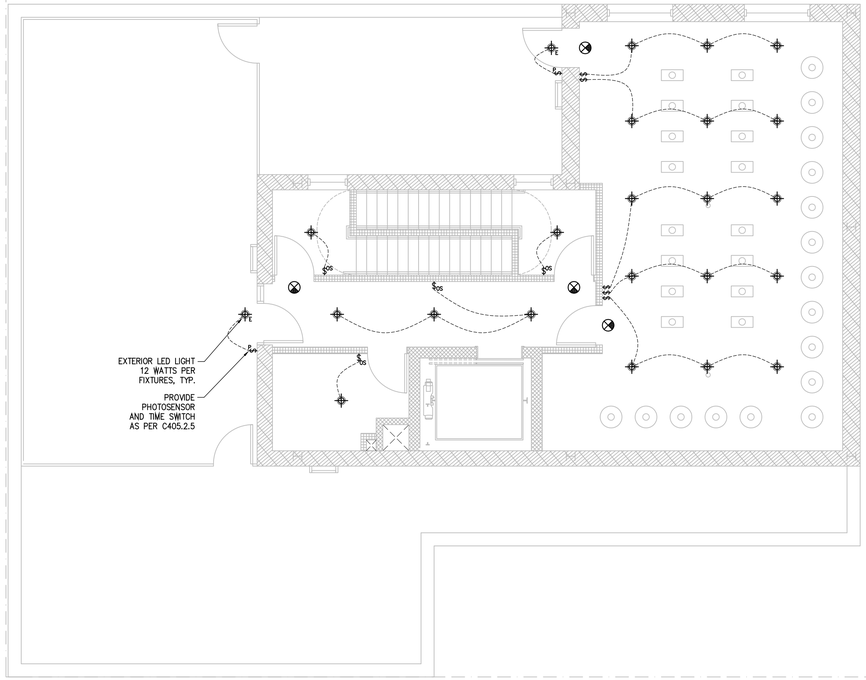
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PROPOSED 5TH FLOOR REFLECTIVE CEILING PLAN
SCALE: 3/16" = 1'-0"



PROPOSED BULKHEAD REFLECTIVE CEILING PLAN
SCALE: 3/16" = 1'-0"

LEGEND

L1
LED DOWNLIGHT
POWER: 12.5 WATT/FIXTURE
1,000 LUMENS PER FIXTURE

MANUFACTURE: CREE
INPUT: AC 120V
MODEL NUMBER:
LR6-DR1000
LED LIGHT DO NOT
NEED BALLAST

E
LED LIGHT
POWER: 8 WATT/FIXTURE
630 LUMENS PER FIXTURE

MANUFACTURE: HAMPTON BAY
INPUT: AC 120V
MODEL NUMBER:
IZH1691L-2
LED LIGHT DO NOT
NEED BALLAST

L2
4 FEET T12 LINEAR LED TUBE
POWER: 20 WATT X 4
2,100 LUMENS X 4

MANUFACTURE: PHILIPS
INPUT: AC 120V
DESCRIPTION: 4 FEET T12 LINEAR
LED TUBE (20 WATT X 4)
LED LIGHT DO NOT
NEED BALLAST

FIRE-RATED ACOUSTICAL LAY-IN CEILING TILES AND GRID
MANUFACTURER: ARMSTRONG
SERIES: ULTIMA #1912
SIZE: 24" x 24" x 3/4"
EDGE PROFILE: BEVELED TEGULAR
GRID SYSTEM: SUPRAFINE XL 9/16" EXPOSED TEE

EXIT SIGN, MAX. 5 WATTS PER FACE (AS PER ASHRAE 90.1-2013, NYCECC APPENDIX CA SECTION 9.4.3)
INDICATES FACE OF SIGN
INDICATES DIRECTION

DAYLIGHT ZONE

$ INTERIOR LIGHTING CONTROL AS PER SECTION 9.4.1.1(a) AND AND TABLE 9.6.1

$OS OCCUPANCY SENSORS TURN OFF LIGHTS WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE, AND WITH MANUAL ON/OFF SWITCH AS PER SECTION 9.4.1.1(h) AND TABLE 9.6.1, SEE ADDITIONAL NOTES ON RCP-004

$TS AUTOMATIC TIME SWITCH WITH OVERIDE SWITCHING DEVICE THAT CONTROL ALL LIGHTING WITHIN EACH SPACE, AS PER 9.4.1.1(i) AND TABLE 9.6.1. SEE ADDITIONAL NOTES ON RCP-004.

$P PHOTOSENSORS AND TIME SWITCH FOR EXTERIRO LIGHTING AS PER 9.4.1.4

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

PROPOSED REFLECTIVE CEILING PLANS

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LIGHTING ANALYSIS

TABLE 9.5.1 INTERIOR LIGHTING POWER ALLOWANCES: BUILDING AREA METHOD

TOTAL INTERIOR LIGHTING FIXTURES SCHEDULE (COMMERCIAL)

FLOOR	ITEM	LIGHTING FIXTURES	NO. OF FIXTURES	WATT PER FIXTURE	TOTAL WATT	TOTAL FLOOR AREA	MAX. LPD AS PER TABLE 9.5.1	PROPOSED LPD AS PER SECTION 9.5.1
CELLAR	L1	LED DOWNLIGHT	15	12.5	187.5 WATT	3,698 S.F.	1.26 W/FT² (RETAIL)	2,907.5 / 3,698 = 0.786 W/FT²
	L2	LED TUBE LIGHT	34	20 X 4 = 80	2,720.0 WATT			
				TOTAL	2,907.5 WATT			
1ST FLOOR	L1	LED DOWNLIGHT	5	12.5	62.5 WATT	3,167 S.F.	1.26 W/FT² (RETAIL)	3,342.5 / 3,167 = 1.055 W/FT²
	L2	LED TUBE LIGHT	41	20 X 4 = 80	3,280.0 WATT			
				TOTAL	3,342.5 WATT			
				TOTAL	6,250.0 WATT	6,865 S.F.	1.26 W/FT² (RETAIL)	6,250.0 / 6,865 = 0.910 W/FT²

TABLE 9.5.1 INTERIOR LIGHTING POWER ALLOWANCES: BUILDING AREA METHOD

TOTAL WATTS OVER INTERIOR AREA = 6,250.0 WATTS
TOTAL AREA OF BUILDING = 6,865 S.F.

PROPOSED LPD = 6,250.0 WATTS / 6,865 S.F. = 0.910 W/FT²,
RETAIL, MAX. ALLOW LPD = 1.26 W/FT², AS PER ASHRAE 90.1–2013, NYCECC APPENDIX CA TABLE 9.5.1

TABLE 9.4.2–2 INDIVIDUAL LIGHTING POWER ALLOWANCE FOR BUILDING EXTERIORS

TOTAL WATTS OVER BUILDING ENTRANCE/EXIT = 64 WATTS
TOTAL DOOR WIDTH OF BUILDING ENTRANCE/EXIT = 24 FT.

PROPOSED WATTS/LINEAR FOOT = 64 WATTS / 24 FT = 2.67 W/LINEAR FOOT
AS PER ASHRAE 90.1–2013, NYCECC APPENDIX CA TABLE 9.4.2–2,
MAX. ALLOW WATTS/LINEAR FOOT = 20 W/LINEAR FOOT

PROPOSED 2.67 W/LINEAR FOOT < 20 W/LINEAR FOOT ...OK

TOTAL INTERIOR LIGHTING FIXTURES SCHEDULE (RESIDENTIAL)

FLOOR	ITEM	LIGHTING FIXTURES	NO. OF FIXTURES	WATT PER FIXTURE	TOTAL WATT	TOTAL FLOOR AREA	MAX. LPD AS PER TABLE 9.5.1	PROPOSED LPD AS PER SECTION 9.5.1
1ST FL.	L1	LED DOWNLIGHT	7	12.5	87.5 WATT	9,655 S.F.	0.51 W/FT² (MULTIFAMILY)	2,025.0 / 9,655 = 0.210 W/FT²
2ND FL.	L1	LED DOWNLIGHT	34	12.5	425 WATT			
3RD FL.	L1	LED DOWNLIGHT	34	12.5	425 WATT			
4TH FL.	L1	LED DOWNLIGHT	34	12.5	425 WATT			
5TH FL.	L1	LED DOWNLIGHT	32	12.5	400 WATT			
BULKHEAD	L1	LED DOWNLIGHT	21	12.5	262.5 WATT			
TOTAL			162	12.5	2,025 WATT			

SECTION 9.1.1 EXCEPTIONS 2:

DWELLING UNITS WITHIN COMMERCIAL BUILDINGS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION PROVIDED THAT NOT LESS THAN 75 PERCENT OF THE PERMANENTLY INSTALLED FIXTURES, OTHER THAN LOW–VOLTAGE LIGHTING, SHALL BE FITTED FOR, AND CONTAIN ONLY, HIGH EFFICACY LAMPS.

ASHRAE 90.1–2013, NYCECC APPENDIX CA ENERGY REQUIREMENT

REQ. TO PROVIDE SENSORS AND CONTROLS
TOTAL LUMENS = 162,000
TOTAL WATTS = 2,025 WATT
162,000 / 2,025 = 80 EFFICACY = HIGH EFFICACY
THEREFORE 162 / 162 = 100% HIGH EFFICACY LAMPS
GREATER THAN 75% REQ'D...OK

TABLE C405.4.2(1) INTERIOR LIGHTING POWER ALLOWANCES: BUILDING AREA METHOD

TOTAL WATTS OVER INTERIOR AREA = 2,025.0 WATTS
TOTAL AREA OF BUILDING = 9,655 S.F.

PROPOSED LPD = 2,025.0 WATTS / 9,655 S.F. = 0.210 W/FT²,
MULTIFAMILY, MAX. ALLOW LPD = 0.51 W/FT², AS PER ASHRAE 90.1–2013, NYCECC APPENDIX CA TABLE 9.5.1

POWER – ASHRAE 90.1–2013, NYCECC APPENDIX CA SECTION 8:

8.4.1 VOLTAGE DROP.

THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.
EXCEPTION: FEEDER CONDUCTORS AND BRANCH CIRCUITS THAT ARE DEDICATED TO EMERGENCY SERVICES.

8.4.3.1 MONITORING.

MEASUREMENT DEVICES SHALL BE INSTALLED IN NEW BUILDINGS TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING SEPARATELY:
A. TOTAL ELECTRICAL ENERGY
B. HVAC SYSTEMS
C. INTERIOR LIGHTING
D. EXTERIOR LIGHTING
E. RECEPTACLE CIRCUITS
FOR BUILDINGS WITH TENANTS, THESE SYSTEMS SHALL BE SEPARATELY MONITORED FOR THE TOTAL BUILDING AND (EXCLUDING SHARED SYSTEMS) FOR EACH INDIVIDUAL TENANT.
EXCEPTION: UP TO 10% OF THE LOAD FOR EACH OF THE CATEGORIES (B) THROUGH (E) SHALL BE ALLOWED TO BE FROM OTHER ELECTRICAL LOADS.

8.4.5 MEASUREMENT OF ELECTRICAL CONSUMPTION OF TENANT SPACES IN COVERED BUILDING.

THE TERMS METER, SUBMETER, COVERED BUILDING, TENANT SPACE AND COVERED TENANT SPACE SHALL BE AS DEFINED IN SECTION 28–311.2 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK. EACH COVERED TENANT SPACE IN A NEW BUILDING SHALL BE EQUIPPED WITH A SEPARATE METER OR SUB–METER TO MEASURE THE ELECTRICAL CONSUMPTION OF SUCH SPACE WHEN LET OR SUBLET. WHERE THE COVERED TENANT SPACE IS A FLOOR WITH MULTIPLE TENANCIES, EACH TENANCY WITH AN AREA LESS THAN THAT AS DEFINED IN SECTION 28–311.2 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK SHALL (I) BE EQUIPPED WITH A SEPARATE METER OR SUB–METER, (II) SHARE A METER OR SUB–METER WITH OTHER TENANT SPACES ON THE FLOOR, OR (III) SHARE A METER OR SUB–METER COVERING THE ENTIRE FLOOR. AS NEW COVERED TENANT SPACES ARE CREATED, THEY SHALL BE EQUIPPED WITH METERS OR SUB–METERS AS PROVIDED IN THIS SECTION.
EXCEPTION: COVERED TENANT SPACE FOR WHICH THE ELECTRICAL CONSUMPTION WITHIN SUCH SPACE IS MEASURED BY A METER DEDICATED EXCLUSIVELY TO THAT SPACE.

8.7.1 DRAWINGS

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING
A. A SINGLE–LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
B. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

8.7.1 MANUALS

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
B. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

LIGHTING – ASHRAE 90.1–2013, NYCECC APPENDIX CA SECTION 9:

9.4.1.1 INTERIOR LIGHTING CONTROLS

FOR EACH SPACE IN THE BUILDING, ALL OF THE LIGHTING CONTROL FUNCTIONS INDICATED IN TABLE 9.6.1, FOR THE APPROPRIATE SPACE TYPE IN COLUMN A, AND AS DESCRIBED BELOW, SHALL BE IMPLEMENTED. ALL CONTROL FUNCTIONS LABELED WITH AN "REQ" ARE MANDATORY AND SHALL BE IMPLEMENTED. IF A SPACE TYPE HAS CONTROL FUNCTIONS LABELED "ADD1" THEN AT LEAST ONE OF THOSE FUNCTIONS SHALL BE IMPLEMENTED. IF A SPACE TYPE HAS CONTROL FUNCTIONS LABELED "ADD2" THEN AT LEAST ONE OF THOSE FUNCTIONS SHALL BE IMPLEMENTED. FOR SPACE TYPES NOT LISTED, SELECT A REASONABLY EQUIVALENT TYPE.
IF USING THE SPACE–BY–SPACE METHOD FOR LPD REQUIREMENTS, THE SPACE TYPE USED FOR DETERMINING CONTROL REQUIREMENTS SHALL BE THE SAME SPACE TYPE USED TO DETERMINE THE LPD.

a. LOCAL CONTROL: THERE SHALL BE ONE OR MORE MANUAL LIGHTING CONTROLS IN THE SPACE THAT CONTROLS ALL OF THE LIGHTING IN THE SPACE. EACH CONTROL DEVICE SHALL CONTROL AN AREA (1) NO LARGER THAN 2500 FT² IF THE SPACE IS ≤ 10,000 FT² AND (2) NO LARGER THAN 10,000 FT² OTHERWISE. THE DEVICE INSTALLED TO COMPLY WITH THIS PROVISION SHALL BE READILY ACCESSIBLE AND LOCATED SO THAT THE OCCUPANTS CAN SEE THE CONTROLLED LIGHTING WHEN USING THE CONTROL DEVICE.
EXCEPTION: REMOTE LOCATION OF THIS LOCAL CONTROL DEVICE OR DEVICES SHALL BE PERMITTED FOR REASONS OF SAFETY OR SECURITY WHEN EACH REMOTE CONTROL DEVICE HAS AN INDICATOR PILOT LIGHT AS PART OF OR NEXT TO THE CONTROL DEVICE AND THE LIGHT IS CLEARLY LABELED TO IDENTIFY THE CONTROLLED LIGHTING.

b. RESTRICTED TO MANUAL ON: NONE OF THE LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
EXCEPTION: MANUAL ON IS NOT REQUIRED WHERE MANUAL ON OPERATION OF THE GENERAL LIGHTING WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS.

c. RESTRICTED TO PARTIAL AUTOMATIC ON: NO MORE THAN 50% OF THE LIGHTING POWER FOR THE GENERAL LIGHTING SHALL BE ALLOWED TO BE AUTOMATICALLY TURNED ON, AND NONE OF THE REMAINING LIGHTING SHALL BE AUTOMATICALLY TURNED ON.

d. BILEVEL LIGHTING CONTROL: THE GENERAL LIGHTING IN THE SPACE SHALL BE CONTROLLED SO AS TO PROVIDE AT LEAST ONE INTERMEDIATE STEP IN LIGHTING POWER OR CONTINUOUS DIMMING IN ADDITION TO FULL ON AND FULL OFF. AT LEAST ONE INTERMEDIATE STEP SHALL BE BETWEEN 30% AND 70% (INCLUSIVE) OF FULL LIGHTING POWER.

e. AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS FOR SIDELIGHTING: IN ANY SPACE WHERE THE COMBINED INPUT POWER OF ALL GENERAL LIGHTING COMPLETELY OR PARTIALLY WITHIN THE PRIMARY SIDE–LIGHTED AREAS IS 150 W OR GREATER, THE GENERAL LIGHTING IN THE PRIMARY SIDELIGHTED AREAS SHALL BE CONTROLLED BY PHO– CONTROLS.
IN ANY SPACE WHERE THE COMBINED INPUT POWER OF ALL GENERAL LIGHTING COMPLETELY OR PARTIALLY WITHIN THE PRIMARY AND SECONDARY SIDELIGHTED AREAS IS 300 W OR GREATER, THE GENERAL LIGHTING IN THE PRIMARY SIDELIGHTED AREAS AND SECONDARY SIDELIGHTED AREAS SHALL BE CONTROLLED BY PHOTOCONTROLS.
THE CONTROL SYSTEM SHALL HAVE THE FOLLOWING CHARACTERISTICS:
1. THE CALIBRATION ADJUSTMENTS SHALL BE READILY ACCESSIBLE.
2. AT MINIMUM, GENERAL LIGHTING IN THE SECONDARY SIDE–LIGHTED AREA SHALL BE CONTROLLED INDEPENDENTLY OF THE GENERAL LIGHTING IN THE PRIMARY SIDELIGHTED AREA.
3. THE PHOTOCONTROL SHALL REDUCE ELECTRIC LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING OR WITH AT LEAST ONE CONTROL POINT BETWEEN 50% AND 70% OF DESIGN LIGHTING POWER, A SECOND CONTROL POINT BETWEEN 20% AND 40% OF DESIGN LIGHTING POWER OR THE LOWEST DIMMING LEVEL THE TECHNOLOGY ALLOWS, AND A THIRD CONTROL POINT THAT TURNS OFF ALL THE CONTROLLED LIGHTING.
EXCEPTIONS: THE FOLLOWING AREAS ARE EXEMPTED FROM SECTION 9.4.1.1(e):
1. PRIMARY SIDELIGHTED AREAS WHERE THE TOP OF ANY EXISTING ADJACENT STRUCTURE IS TWICE AS HIGH ABOVE THE WINDOWS AS ITS DISTANCE AWAY FROM THE WINDOWS
2. SIDELIGHTED AREAS WHERE THE TOTAL GLAZING AREA IS LESS THAN 20 FT²
3. RETAIL SPACES

f. AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS FOR TOPLIGHTING: IN ANY SPACE WHERE THE COMBINED INPUT POWER FOR ALL GENERAL LIGHTING COMPLETELY OR PARTIALLY WITHIN DAYLIGHT AREAS UNDER SKYLIGHTS AND DAYLIGHT AREAS UNDER ROOF MONITORS IS 150 W OR GREATER, GENERAL LIGHTING IN THE DAYLIGHT AREA SHALL BE CONTROLLED BY PHOTOCONTROLS HAVING THE FOLLOWING CHARACTERISTICS:
1. THE CALIBRATION ADJUSTMENTS SHALL BE READILY ACCESSIBLE.
2. THE PHOTOCONTROL SHALL REDUCE ELECTRIC LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING OR WITH AT LEAST ONE CONTROL POINT THAT IS BETWEEN 50% AND 70% OF DESIGN LIGHTING POWER, A SECOND CONTROL POINT BETWEEN 20% AND 40% OF DESIGN LIGHTING POWER OR THE LOWEST DIMMING LEVEL THE TECHNOLOGY ALLOWS, AND A THIRD CONTROL POINT THAT TURNS OFF ALL THE CONTROLLED LIGHTING.
3 GENERAL LIGHTING IN OVERLAPPING TOPLIGHTED AND SIDE–LIGHTED DAYLIGHT AREAS SHALL BE CONTROLLED TOGETHER WITH GENERAL LIGHTING IN THE DAYLIGHT AREA UNDER SKY–LIGHTS OR DAYLIGHT AREAS UNDER ROOF MONITORS.
EXCEPTIONS: THE FOLLOWING AREAS ARE EXEMPTED FROM SECTION 9.4.1.1(f):
1. DAYLIGHT AREAS UNDER SKYLIGHTS WHERE IT IS DOCUMENTED THAT EXISTING ADJACENT STRUCTURES OR NATURAL OBJECTS BLOCK DIRECT SUNLIGHT FOR MORE THAN 1500 DAYTIME HOURS PER YEAR BETWEEN 8 A.M. AND 4 P.M.
2. DAYLIGHT AREAS WHERE THE SKYLIGHT VISUAL TRANSMITTANCE (VT) IS LESS THAN 0.4
3. IN EACH SPACE WITHIN BUILDINGS IN CLIMATE ZONE 8 WHERE THE INPUT POWER OF THE GENERAL LIGHTING WITHIN DAYLIGHT AREAS IS LESS THAN 200 W

g. AUTOMATIC PARTIAL OFF (FULL OFF COMPLIES): THE GENERAL LIGHTING POWER IN THE SPACE SHALL BE AUTOMATICALLY REDUCED BY AT LEAST 50% WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
EXCEPTIONS: THIS REQUIREMENT DOES NOT HAVE TO BE COMPLIED WITH IN SPACES THAT MEET ALL THREE OF THE FOLLOWING REQUIREMENTS:
1. THE SPACE HAS AN LPD OF NO MORE THAN 0.80 W/FT²
2. THE SPACE IS LIGHTED BY HID
3. THE GENERAL LIGHTING POWER IN THE SPACE IS AUTOMATICALLY REDUCED BY AT LEAST 30% WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE

h. AUTOMATIC FULL OFF: ALL LIGHTING SHALL BE AUTOMATICALLY SHUT OF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE. A CONTROL DEVICE MEETING THIS REQUIREMENT SHALL CONTROL NO MORE THAN 5000 FT², PROVIDED THAT FOR OPEN PLAN OFFICES, A CONTROL DEVICE MEETING THIS REQUIREMENT SHALL CONTROL NO MORE THAN 2500 FT².
EXCEPTIONS: THE FOLLOWING LIGHTING IS NOT REQUIRED TO BE AUTOMATICALLY SHUT OFF:
1. GENERAL LIGHTING AND TASK LIGHTING IN SHOP, LABORATORY, AND PRESCHOOL CLASSROOMS.
2. GENERAL LIGHTING AND TASK LIGHTING IN SPACES WHERE AUTOMATIC SHUTOF WOULD ENDANGER THE SAFETY OR SECURITY OF ROOM OR BUILDING OCCUPANTS.
3. LIGHTING REQUIRED FOR 24/7 OPERATION.
4. LIGHTING IN OFFICES SMALLER THAN 200 SQUARE FEET IN AREA EQUIPPED WITH LIGHTING CONTROLS ACTIVATED BY PHOTOSENSOR.

i. SCHEDULED SHUTOFF: ALL LIGHTING IN THE SPACE NOT EXEMPTED BY EXCEPTION (1) TO SECTION 9.1.1 SHALL BE AUTOMATICALLY SHUT OFF DURING PERIODS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED USING EITHER (1) A TIME–OF–DAY OPERATED CONTROL DEVICE THAT AUTOMATICALLY TURNS THE LIGHTING OF AT SPECIFIC PROGRAMMED TIMES OR (2) A SIGNAL FROM ANOTHER AUTOMATIC CONTROL DEVICE OR ALARM/SECURITY SYSTEM. THE CONTROL DEVICE OR SYSTEM SHALL PROVIDE INDEPENDENT CONTROL SEQUENCES THAT (1) CONTROL THE LIGHTING FOR AN AREA OF NO MORE THAN 25,000 FT², (2) INCLUDE NO MORE THAN ONE FLOOR, AND (3) SHALL BE PROGRAMMED TO ACCOUNT FOR WEEKENDS AND HOLIDAYS. ANY MANUAL CONTROL INSTALLED TO PRO– VIDE OVERRIDE OF THE SCHEDULED SHUTOF CONTROL SHALL NOT TURN THE LIGHTING ON FOR MORE THAN TWO HOURS PER ACTIVATION DURING SCHEDULED OFF PERIODS AND SHALL NOT CONTROL MORE THAN 5000 FT².
EXCEPTIONS: THE FOLLOWING LIGHTING IS NOT REQUIRED TO BE ON SCHEDULED SHUTOFF:
1. LIGHTING IN SPACES WHERE LIGHTING IS REQUIRED FOR 24/7 CONTINUOUS OPERATION
2. LIGHTING IN SPACES WHERE PATIENT CARE IS RENDERED
3. LIGHTING IN SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS

9.4.1.4 EXTERIOR LIGHTING CONTROL

LIGHTING FOR EXTERIOR APPLICATIONS NOT EXEMPTED IN SECTION 9.1 SHALL MEET THE FOLLOWING
REQUIREMENTS:
a. LIGHTING SHALL BE CONTROLLED BY A DEVICE THAT AUTOMATICALLY TURNS OFF THE LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
b. ALL BUILDING FACADE AND LANDSCAPE LIGHTING SHALL BE AUTOMATICALLY SHUT OF BETWEEN MIDNIGHT OR BUSINESS CLOSING, WHICHEVER IS LATER, AND 6 A.M. OR BUSINESS OPENING, WHICHEVER COMES FIRST, OR BETWEEN TIMES ESTABLISHED BY THE AUTHORITY HAVING JURISDICTION.
c. LIGHTING NOT SPECIFIED IN SECTION 9.4.1.4(b) AND LIGHTING FOR SIGNAGE SHALL BE CONTROLLED BY A DEVICE THAT AUTOMATICALLY REDUCES THE CONNECTED LIGHTING POWER BY AT LEAST 30% FOR AT LEAST ONE OF THE FOLLOWING CONDITIONS:
1. FROM 12 MIDNIGHT OR WITHIN ONE (1) HOUR OF THE END OF BUSINESS OPERATIONS, WHICHEVER IS LATER, UNTIL 6 A.M. OR BUSINESS OPENING, WHICHEVER IS EARLIER
2. DURING ANY PERIOD WHEN NO ACTIVITY HAS BEEN DETECTED FOR A TIME OF NO LONGER THAN 15 MINUTES. ALL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST TEN HOUR.
EXCEPTIONS:
1. LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS FROM BUILDINGS OR PARKING STRUCTURES WHERE REQUIRED FOR SAFETY, SECURITY, OR EYE ADAPTATION
2. LIGHTING THAT IS INTEGRAL TO SIGNAGE AND INSTALLED IN THE SIGNAGE BY THE MANUFACTURER

9.4.4 FUNCTIONAL TESTING

LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHEN OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, OR PHOTOSENSORS ARE INSTALLED, AT A MINIMUM, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
A. OCCUPANT SENSORS
1. CERTIFY THAT THE SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. FOR PROJECTS WITH UP TO SEVEN (7) OCCUPANCY SENSORS, ALL OCCUPANCY SENSORS SHALL BE TESTED.
3. FOR PROJECTS WITH MORE THAN SEVEN (7) OCCUPANCY SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY.
(A) FOR EACH SENSOR TO BE TESTED, VERIFY THE FOLLOWING:
(1) STATUS INDICATOR (AS APPLICABLE) OPERATES CORRECTLY
(2) CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME
(3) FOR AUTO–ON OCCUPANT SENSORS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN SOMEONE ENTERS THE SPACE
(4) FOR MANUAL–ON SENSORS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED
(5) THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN NEARBY AREAS OR BY HVAC OPERATION
B. AUTOMATIC TIME SWITCHES
1. CONFIRM THAT THE AUTOMATIC TIME–SWITCH CONTROL IS PROGRAMMED WITH APPROPRIATE WEEKDAY, WEEKEND, AND HOLIDAY (AS APPLICABLE) SCHEDULES.
2. DOCUMENT FOR THE OWNER AUTOMATIC TIME–SWITCH PROGRAMMING, INCLUDING WEEKDAY, WEEKEND, AND HOLIDAY SCHEDULES, AS WELL AS ALL SETUP AND PREFERENCE PROGRAM SETTINGS.
3. VERIFY THAT CORRECT TIME AND DATE ARE PROPERLY SET IN THE TIME SWITCH.
4. VERIFY THAT ANY BATTERY BACKUP (AS APPLICABLE) IS INSTALLED AND ENERGIZED.
5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NO MORE THAN TWO (2) HOURS.
6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
(A) ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
(B) THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
7. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
(A) ALL NONEXEMPT LIGHTING TURNS OFF
(B) MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUT OFF OCCURS
C. DAYLIGHT CONTROLS
1. ALL CONTROL DEVICES (PHOTOCONTROLS) HAVE BEEN PROPERLY LOCATED, FIELD–CALIBRATED, AND SET FOR APPROPRIATE SETPOINTS AND THRESHOLD LIGHT LEVELS.
2. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO APPROPRIATE LIGHT LEVELS IN RESPONSE TO AVAILABLE DAYLIGHT.
3. THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE IS READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
THE INDIVIDUAL(S) RESPONSIBLE FOR THE FUNCTIONAL TESTING SHALL NOT BE DIRECTLY INVOLVED IN EITHER THE DESIGN OR CONSTRUCTION OF THE PROJECT AND SHALL PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA.

9.7.2.1 DRAWINGS

CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE, AS A MINIMUM, THE LOCATION, LUMINAIRE IDENTIFIER, CONTROL, AND CIRCUITING FOR EACH PIECE OF LIGHTING EQUIPMENT.

9.7.2.1 MANUALS

CONSTRUCTION DOCUMENTS SHALL REQUIRE FOR ALL LIGHTING EQUIPMENT AND LIGHTING CONTROLS, AN OPERATING AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
a. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT, INCLUDING BUT NOT LIMITED TO LAMPS, BALLASTS, DRIVERS, AND LIGHTING CONTROLS.
b. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS WITH ROUTINE MAINTENANCE CLEARLY IDENTIFIED INCLUDING, AS A MINIMUM, A RECOMMENDED RELAMPING/CLEANING PROGRAM AND A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
c. A COMPLETE NARRATIVE OF HOW EACH LIGHTING CONTROL SYSTEM IS INTENDED TO OPERATE INCLUDING RECOMMENDED SETTINGS.

ARCHITECT

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

LIGHTING ANALYSIS AND NOTES

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

The reproduction of this drawing or the use of ideas and arrangements indicated on this drawing without the written approval of this office is prohibited. Written dimensions take precedence over scaled dimensions. The contractor shall verify dimensions and conditions at the job and report discrepancies to the Architect prior to the start of the work.

Proj. No.	18–1665
Date	12–12–18
Scale	AS NOTED
Drawn	

SEAL

DRAWING NUMBER

RCP-004.00

SHEET 22 OF 25

Orient and affix BBS job number label here

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Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	1665 STILLWELL AVENUE
Location:	New York, New York
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	14%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_NY_New.York-LaGuardia.AP.725030_TMY3.epw)

Construction Site:
1665 STILLWELL AVENUE
BROOKLYN, NY 11223

Owner/Agent:
SAI TRUONG
1665 STILLWELL AVENUE
BROOKLYN, NY 11223

Designer/Contractor:

Building Area	Floor Area
1-GENERAL RETAIL (Retail) : Nonresidental	6865
2-16 DWELLING UINTS (Multifamily) : Residential	9655

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Attic Roof with Steel Joists, [Bldg. Use 2 - 16 DWELLING UINTS]	3337	49.0	0.0	0.029	0.021
SLAB ON GRADE: Slab-On-Grade:Heated, Horizontal with vertical 4 ft., [Bldg. Use 1 - GENERAL RETAIL] (d)	254	---	20.0	1.110	0.843
Floor SLAB: Other Floor, [Bldg. Use 2 - 16 DWELLING UINTS] (b)	18071	---	---	0.038	0.033
NORTH					
NORTH WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - GENERAL RETAIL]	680	13.0	10.0	0.058	0.104
NORTH WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 2 - 16 DWELLING UINTS]	2341	13.0	10.0	0.058	0.090
Basement Wall: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 10.3, Depth B.G. 10.3, [Bldg. Use 1 - GENERAL RETAIL]	640	13.0	0.0	0.147	0.108
EAST					
EAST WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - GENERAL RETAIL]	714	13.0	10.0	0.058	0.104
COMMERCIAL FIXED WINDOW: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID AND-N-63-00942-00002, SHGC 0.28, VT 0.48, [Bldg. Use 1 - GENERAL RETAIL] (c)	180	---	---	0.290	0.350
EAST WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 2 - 16 DWELLING UINTS]	2982	13.0	10.0	0.058	0.090
RESIDENTIAL CASEMENT WINDOW: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID AND-N-1-01145-00001, SHGC 0.32, VT 0.54, [Bldg. Use 2 - 16 DWELLING UINTS] (c)	442	---	---	0.280	0.350
RESIDENTAIL SINGLE HUNG WINDOW: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID AND-N-1-01145-00001, SHGC 0.32, VT 0.54, [Bldg. Use 2 - 16 DWELLING UINTS] (c)	33	---	---	0.280	0.350

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
RESIDENTIAL SLIDING DOOR: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID AND-N-158-00552-00001, SHGC 0.21, VT 0.47, [Bldg. Use 2 - 16 DWELLING UINTS] (c)	336	---	---	0.360	0.420
Basement Wall: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 10.3, Depth B.G. 10.3, [Bldg. Use 1 - GENERAL RETAIL]	671	13.0	0.0	0.147	0.108
SOUTH					
SOUTH WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - GENERAL RETAIL]	680	13.0	10.0	0.058	0.104
COMMERCIAL FIXED WINDOW: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID AND-N-63-00942-00002, SHGC 0.28, VT 0.48, [Bldg. Use 1 - GENERAL RETAIL] (c)	60	---	---	0.290	0.350
RESIDENTIAL ENTRANCE DOOR: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID ASW-M-15-00618-00001, SHGC 0.33, VT 0.33, [Bldg. Use 1 - GENERAL RETAIL] (c)	43	---	---	0.250	0.770
SOUTH WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 2 - 16 DWELLING UINTS]	2341	13.0	10.0	0.058	0.090
RESIDENTAIL DOUBLE HUNG WINDOW: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID AND-N-1-01145-00001, SHGC 0.32, VT 0.54, [Bldg. Use 2 - 16 DWELLING UINTS] (c)	122	---	---	0.280	0.350
RESIDENTIAL EXTERIOR DOOR: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 2 - 16 DWELLING UINTS]	24	---	---	0.420	0.500
Basement Wall: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 10.3, Depth B.G. 10.3, [Bldg. Use 1 - GENERAL RETAIL]	640	13.0	0.0	0.147	0.108
WEST					
WEST WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - GENERAL RETAIL]	714	13.0	10.0	0.058	0.104
STOREFRONT WINDOW: Metal Frame:Fixed, Perf. Specs.: Product ID ARA-K-35-00022-00001, SHGC 0.24, VT 0.53, [Bldg. Use 1 - GENERAL RETAIL] (c)	343	---	---	0.340	0.420
STOREFRONT DOOR: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID AND-N-139-00490-00002, SHGC 0.29, VT 0.30, [Bldg. Use 1 - GENERAL RETAIL] (c)	114	---	---	0.360	0.770
FIRE RATED EGRESS DOOR: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - GENERAL RETAIL]	42	---	---	0.420	0.500
WEST WALL: Concrete Block:6", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 2 - 16 DWELLING UINTS]	2982	13.0	10.0	0.058	0.090
RESIDENTIAL CASEMENT WINDOW: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID AND-N-1-01145-00001, SHGC 0.32, VT 0.54, [Bldg. Use 2 - 16 DWELLING UINTS] (c)	525	---	---	0.280	0.350
RESIDENTIAL SLIDING DOOR: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID AND-N-158-00552-00001, SHGC 0.21, VT 0.47, [Bldg. Use 2 - 16 DWELLING UINTS] (c)	84	---	---	0.360	0.420
Basement Wall: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 10.3, Depth B.G. 10.3, [Bldg. Use 1 - GENERAL RETAIL]	671	13.0	0.0	0.147	0.108

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

COMcheck Software Version 4.1.1.0

Interior Lighting Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	1665 STILLWELL AVENUE
Project Type:	New Construction

Construction Site:
1665 STILLWELL AVENUE
BROOKLYN, NY 11223

Owner/Agent:
SAI TRUONG
1665 STILLWELL AVENUE
BROOKLYN, NY 11223

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-GENERAL RETAIL (Retail)	6865	1.26	8650
2-16 DWELLING UINTS (Multifamily)	9655	0.51	4924
		Total Allowed Watts =	13574

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-GENERAL RETAIL (Retail)				
LED 1: LED Linear 20W:	4	75	80	6000
LED 2: LED A Lamp 12W:	1	20	12	250
2-16 DWELLING UINTS (Multifamily)				
LED 3: LED A Lamp 12W:	1	162	12	2025
			Total Proposed Watts =	8275

Interior Lighting PASSES: Design 39% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

COMcheck Software Version 4.1.1.0

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	1665 STILLWELL AVENUE
Project Type:	New Construction
Exterior Lighting Zone	2 (Residential mixed use area)

Construction Site:
1665 STILLWELL AVENUE
BROOKLYN, NY 11223

Owner/Agent:
SAI TRUONG
1665 STILLWELL AVENUE
BROOKLYN, NY 11223

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Main entry	24 ft of door	20	Yes	480
		Total Tradable Watts (a) =		480
		Total Allowed Watts =		480
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Main entry (24 ft of door width): Tradable Wattage				
LED 1: LED A Lamp 8W:	1	8	8	64
			Total Tradable Proposed Watts =	64

Exterior Lighting PASSES: Design 94% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

COMcheck Software Version 4.1.1.0

Inspection Checklist

Energy Code: 90.1 (2013) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 5.4.3.1.1, 5.7 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 5.4.1.1, 8.4.1.2, 8.7 [PR6][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.00, RCP-003.00, RCP-004.00
9.7 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.00, RCP-003.00, RCP-004.00

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
5.5.4.2.3 [PR7][1]	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is >= half the floor area and (a) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40 or (b) the minimum skylight effective aperture >= 1 percent; The skylights have a measured haze value > 90 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.5.3.3 [FO1][1]	Below-grade wall insulation R-value.	R-_____	R-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [FO2][1]	Below-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.5.3.5 [FO3][1]	Slab edge insulation R-value.	R-_____ ☐ Unheated ☐ Heated	R-_____ ☐ Unheated ☐ Heated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [FO4][1]	Slab edge insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.5.3.5 [FO5][1]	Slab edge insulation depth/length.	_____ ft	_____ ft	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.7 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.8.1.7.3 [FO7][1]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
6.4.4.1.5 [FO11][1]	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-_____	R-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS *See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

ARCHITECT

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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

ENERGY ANALYSIS

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

The reproduction of this drawing or the use of ideas and arrangements indicated on this drawing without the written approval of this office is prohibited. Written dimensions take precedence over scaled dimensions. The contractor shall verify dimensions and conditions at the job and report discrepancies to the Architect prior to the start of the work.

Proj. No. 18-1665
Date 12-12-18
Scale AS NOTED
Drawn

SEAL

DRAWING NUMBER

EN-001.00

SHEET 23 OF 25

Orient and affix BIS job number label here

DOB STAMP

PRELIMINARY,
FOR INFORMATION ONLY
NOT FOR CONSTRUCTION

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1][1]	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.4.3.4 [FR4][1]	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart (>= 16 ft apart for adjoigning floor area >= 40000 sq.ft.). Vestibule floor area <=7 50 sq.ft. or 2 percent of the adjoining conditioned floor area.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON A-002.03 FOR ENTRANCE DOORS
5.5.4.3a [FR8][1]	Vertical fenestration U-Factor.	U-_____	U-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.3b [FR9][1]	Skylight fenestration U-Factor.	U-_____	U-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.1 [FR10][1]	Vertical fenestration SHGC value.	SHGC:_____	SHGC:_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.2 [FR11][1]	Skylight SHGC value.	SHGC:_____	SHGC:_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2]	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** A-001.00, DOOR AND WINDOW SCHEDULES
5.8.2.2 [FR13][1]	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.5.3.6 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-_____ ☐ Swinging ☐ Nonswinging	U-_____ ☐ Swinging ☐ Nonswinging	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.4.3.1 [FR15][1]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐Complies ☐Does Not ☐Not Observable, ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Space type is not private office, open office, or computer classroom.
9.4.1.1 [EL1][2]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as "REQ") and optional choice controls (labeled as "ADD1" and ADD2") are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.90, RCP-003.00, RCP-004.00
9.4.1.1 [EL2][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.90, RCP-003.00, RCP-004.00
9.4.1.2 [EL11][1]	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.1f [EL13]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.4 [EL3][2]	Automatic lighting controls for exterior lighting installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.90, RCP-003.00, RCP-004.00
9.4.1.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.90, RCP-003.00, RCP-004.00
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** RCP-001.03, RCP-002.90, RCP-003.00, RCP-004.00

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.5.3.1 [IN2][2]	Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.	R-_____ ☐ Above deck ☐ Metal ☐ Attic	R-_____ ☐ Above deck ☐ Metal ☐ Attic	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2, 5.8.1.3 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope ≤ 3:12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.5.3.2 [IN5][2]	Above-grade wall insulation R-value.	R-_____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-_____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.5.3.4 [IN8][2]	Floor insulation R-value.	R-_____ ☐ Mass ☐ Steel ☐ Wood	R-_____ ☐ Mass ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN9][1]	Floor insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.8.1.1 [IN10][1]	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.9 [IN18][1]	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.4 [IN11][1]	Eaves are baffled to deflect air to above the insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** N/A
5.8.1.5 [IN12][1]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS
5.8.1.6 [IN13][2]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.1 [IN15][2]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** N/A
5.8.1.7.2 [IN16][2]	Foundation vents do not interfere with insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.8 [IN17][1]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NOTE ON DRAWINGS A-301.00, BUILDING SECTIONS

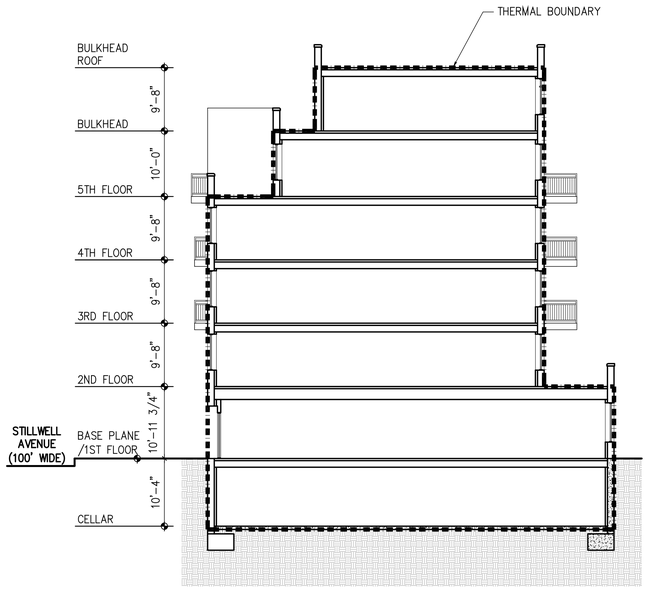
Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

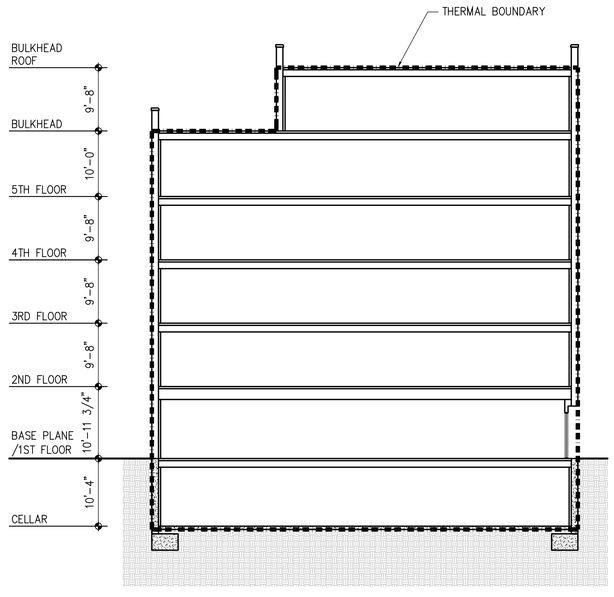
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1][1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
8.7.1 [FI16][2]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][2]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
9.4.2 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)



THERMAL BOUNDARY–LONG SECTION
SCALE: N.T.S.



THERMAL BOUNDARY – CROSS SECTION
SCALE: N.T.S.

LEGEND:

THERMAL BOUNDARY

NOTE: BUILDING DIAGRAMS ARE DIAGRAMMATIC AND TO SHOW THERMAL BOUNDARY ONLY.
NOT FOR CONSTRUCTION.

ARCHITECT

CITY BUILDING NY ARCHITECT P.C.
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Brooklyn, NY 11220
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STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

ENERGY ANALYSIS

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

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Proj. No. 18–1665
Date 12–12–18
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EN-002.00

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ENERGY ANALYSIS (1 RCNY 5000-01):

ADDRESS 1665 STILLWELL AVENUE,
BROOKLYN, NY 11223
CLIMATIC CONDITIONS – NEW YORK STATE

PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE (1 RCNY 5000-01)

	INSPECTION / TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER C6) OR OTHER CRITERIA	ECC OR OTHER CITATION
IIA1	PROTECTION OF EXPOSED FOUNDATION INSULATION: INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER PROTECTION WHERE APPLIED TO THE EXTERIOR OF BASEMENT OR CELLAR WALLS, CRAWL-SPACE WALLS AND/OR THE PERIMETER OF LAB-ON-GRADE FLOORS.	AS REQUIRED DURING FOUNDATION WORK AND PRIOR TO BACKFILL	APPROVED CONSTRUCTION DOCUMENTS	C303.2.1; ASHRAE 90.1 – 5.8.1.7
IIA2	INSULATION PLACEMENT AND R-VALUES: INSTALLED INSULATION FOR EACH COMPONENT OF THE CONDITIONED SPACE ENVELOPE AND AT JUNCTIONS BETWEEN COMPONENTS SHALL BE VISUALLY INSPECTED TO ENSURE THAT THE R VALUES ARE MARKED, THAT SUCH R-VALUES CONFORM TO THE R-VALUES IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND THAT THE INSULATION IS PROPERLY INSTALLED. CERTIFICATIONS FOR UNMARKED INSULATION SHALL BE SIMILARLY VISUALLY INSPECTED.	AS REQUIRED TO VERIFY CONTINUOUS ENCLOSURE WHILE WALLS, CEILINGS AND FLOORS ARE OPEN	APPROVED CONSTRUCTION DOCUMENTS	C303.1, C303.1.1, C303.1.2, C402.1, C402.2; ASHRAE 90.1 – 5.5, 5.6, 5.8.1, 11 OR APPENDIX G
IIA3	FENESTRATION U-FACTOR AND PRODUCT RATINGS: U-FACTORS, SHGC AND VT VALUES OF INSTALLED FENESTRATION SHALL BE VISUALLY INSPECTED FOR CONFORMANCE WITH THE UFACTORS, SHGC AND VT VALUES IDENTIFIED IN THE CONSTRUCTION DRAWINGS BY VERIFYING THE MANUFACTURER'S NFRC LABELS OR, WHERE NOT LABELED, USING THE RATINGS IN ECC TABLES C303.1.3(1), (2) AND (3).	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS; NFRC 100, NFRC 200	C303.1, C303.1.3, C402.4; ASHRAE 90.1 – 5.5; 5.6, 5.8.2, 11 OR APPENDIX G
IIA4	FENESTRATION AIR LEAKAGE: WINDOWS AND SLIDING OR SWINGING DOOR ASSEMBLIES, EXCEPT SITE-BUILT WINDOWS AND/OR DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT INSTALLED ASSEMBLIES ARE LISTED AND LABELED BY THE MANUFACTURER TO THE REFERENCED STANDARD. FOR CURTAIN WALL, STOREFRONT GLAZING, COMMERCIAL ENTRANCE DOORS AND REVOLVING DOORS, THE TESTING REPORTS SHALL BE REVIEWED TO VERIFY THAT THE INSTALLED ASSEMBLY COMPLIES WITH THE STANDARD CITED IN THE APPROVED PLANS.	AS REQUIRED DURING INSTALLATION; PRIOR TO FINAL CONSTRUCTION INSPECTION	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	C402.5.2; ASHRAE 90.1 – 5.4.3.2, 5.8.2.2
IIA5	FENESTRATION AREAS: DIMENSIONS OF WINDOWS, DOORS AND SKYLIGHTS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C402.4; ASHRAE 90.1 – 5.5.4.2, 5.6, 11 OR APPENDIX G
IIA6	AIR SEALING AND INSULATION – VISUAL INSPECTION: OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE, INCLUDING SITE-BUILT FENESTRATION AND DOORS, SHALL BE VISUALLY INSPECTED TO VERIFY THAT A CONTINUOUS AIR BARRIER AROUND THE ENVELOPE FORMS AN AIR-TIGHT ENCLOSURE. THE PROGRESS INSPECTOR SHALL VISUALLY INSPECT TO VERIFY THAT MATERIALS AND/OR ASSEMBLIES HAVE BEEN TESTED AND MEET THE REQUIREMENTS OF THE RESPECTIVE STANDARDS, OR MUST OBSERVE THE TESTING OF THE BUILDING AND/OR ASSEMBLIES AND VERIFY THAT THE BUILDING AND/OR ASSEMBLIES MEET THE REQUIREMENTS OF THE STANDARD, IN ACCORDANCE WITH THE STANDARD(S) CITED IN THE APPROVED PLANS.	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283.	C402.5; ASHRAE 90.1 – 5.4.3.1, 5.4.3.5
IIA7	AIR SEALING AND INSULATION – TESTING: TESTING MUST BE PERFORMED IN ACCORDANCE WITH SECTION ECC C402.5.1.3 OR ASHRAE 90.1 SECTION 5.4.3.5, AND SHALL BE ACCEPTED IF THE BUILDING AND/OR ITS AIR-BARRIER ASSEMBLIES MEET THE REQUIREMENTS DETAILED IN SUCH SECTION. TESTING MUST BE PERFORMED BY A THIRD-PARTY INDEPENDENT OF THE CONTRACTOR AND ACCEPTABLE TO THE DEPARTMENT.	AS REQUIRED DURING CONSTRUCTION, OR PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS; ASTM E 779	C402.5.1.3; ASHRAE 90.1 – 5.4.3.5
IIA8	LOADING DOCK WEATHERSEALS: WEATHERSEALS AT LOADING DOCKS SHALL BE VISUALLY VERIFIED.	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C402.5.6; ASHRAE 90.1 – 5.4.3.3
IIA9	VESTIBULES: REQUIRED ENTRANCE VESTIBULES SHALL BE VISUALLY INSPECTED FOR PROPER OPERATION.	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C402.5.7; ASHRAE 90.1 – 5.4.3.4
IIB1	FIREPLACES: PROVISION OF COMBUSTION AIR AND TIGHT-FITTING FIREPLACE DOORS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS; ANSI Z21.60 (SEE ALSO MC 904), ANSI Z21.50	C402.2.7; BC 2111; MC CHAPTERS 7, 8, 9; FGC CHAPTER 6
IIB2	SHUTOFF DAMPERS: DAMPERS FOR STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRAVITY DAMPERS, COMPLY WITH APPROVED CONSTRUCTION DRAWINGS. MANUFACTURER'S LITERATURE SHALL BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE STANDARD.	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS; AMCA 500D	C403.2.4.3; ASHRAE 90.1 – 6.4.3.4
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT: EQUIPMENT SIZING, EFFICIENCIES, PIPE SIZING AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL PLUMBING AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, ASHRAE 183, ASHRAE HVAC SYSTEMS AND EQUIPMENT HANDBOOK	C403.2, C404.2, C404.5, C404.9, C406.2; ASHRAE 90.1 – 6.3, 6.4.1, 6.4.2, 6.4.5, 6.4.6, 6.5.11, 6.8, 7.4, 7.8

PROFESSIONAL STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT,
THIS APPLICATION IS IN COMPLIANCE WITH NEW YORK CITY ENERGY CONSERVATION CODE 2016, APPENDIX CA (ASHRAE 90.1-2013, AS AMENDED BY NYC).

CALCULATION OF HEATING AND COOLING LOADS.

DESIGN LOADS ASSOCIATED WITH HEATING, VENTILATING AND AIR CONDITIONING OF THE BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH ANSI/ASHRAE/ACCA STANDARD 183 OR BY AN APPROVED EQUIVALENT COMPUTATIONAL PROCEDURE USING THE DESIGN PARAMETERS SPECIFIED IN CHAPTER C3. HEATING AND COOLING LOADS SHALL BE ADJUSTED TO ACCOUNT FOR LOAD REDUCTIONS THAT ARE ACHIEVED WHERE ENERGY RECOVERY SYSTEMS ARE UTILIZED IN THE HVAC SYSTEM IN ACCORDANCE WITH THE ASHRAE HVAC SYSTEMS AND EQUIPMENT HANDBOOK BY AN APPROVED EQUIVALENT COMPUTATIONAL PROCEDURE.

PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE (1 RCNY 5000-01) (CONTINUED)

	INSPECTION / TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER C6) OR OTHER CRITERIA	ECC OR OTHER CITATION
IIB4	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: – THERMOSTATIC – OFF-HOUR – ZONES – FREEZE PROTECTION/SNOW- AND ICE-MELT SYSTEM – VENTILATION SYSTEM AND FAN CONTROLS – ENERGY RECOVERY SYSTEMS – KITCHEN/LAB EXHAUST SYSTEMS – FAN SYSTEMS SERVING SINGLE AND MULTIPLE ZONES – OUTDOOR HEATING SYSTEMS – HVAC CONTROL IN HOTEL/MOTEL GUEST ROOMSAIR/WATER ECONOMIZERS & CONTROLS – HYDRONIC SYSTEMS – HEAT REJECTION SYSTEMS – HOT GAS BYPASS LIMITATION – REFRIGERATION SYSTEMS – DOOR SWITCHES – COMPUTER ROOM SYSTEMS – SERVICE WATER HEATING SYSTEMS – POOL HEATER AND TIME SWITCHES CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY: CONTROLS WHOSE COMPLETE OPERATION CANNOT BE DEMONSTRATED DUE TO PREVAILING WEATHER CONDITIONS TYPICAL OF THE SEASON DURING WHICH PROGRESS INSPECTIONS WILL BE PERFORMED SHALL BE PERMITTED TO BE SIGNED OFF FOR THE PURPOSE OF A TEMPORARY CERTIFICATE OF OCCUPANCY WITH ONLY A VISUAL INSPECTION, PROVIDED, HOWEVER, THAT THE PROGRESS INSPECTOR SHALL PERFORM A SUPPLEMENTAL INSPECTION WHERE THE CONTROLS ARE VISUALLY INSPECTED AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION DURING THE NEXT IMMEDIATE SEASON THEREAFTER. THE OWNER SHALL PROVIDE FULL ACCESS TO THE PROGRESS INSPECTOR WITHIN TWO WEEKS OF THE PROGRESS INSPECTOR'S REQUEST FOR SUCH ACCESS TO PERFORM THE PROGRESS INSPECTION. FOR SUCH SUPPLEMENTAL INSPECTIONS, THE DEPARTMENT SHALL BE NOTIFIED BY THE APPROVED PROGRESS INSPECTION AGENCY OF ANY UNRESOLVED DEFICIENCIES IN THE INSTALLED WORK WITHIN 180 DAYS OF SUCH SUPPLEMENTAL INSPECTION.	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE PERFORMED BEFORE SIGNOFF FOR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES; ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE	C403.2, C403.3, C403.4, C403.5, C404.6, C404.7, C404.9; ASHRAE 90.1 – 6.3, 6.4, 6.5, 6.6, 7.4.4, 7.4.5
IIB5	HVAC INSULATION AND SEALING: INSTALLED DUCT AND PIPING INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING.	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	C403.2.9, C403.2.10, C404.4; MC 603.9; ASHRAE 90.1 – 6.3, 6.4.4, 6.8.2, 6.8.3; 7.4.3
IIB6	DUCT LEAKAGE TESTING: FOR DUCT SYSTEMS DESIGNED TO OPERATE AT STATIC PRESSURES IN EXCESS OF 3 INCHES W.G. (747 PA), REPRESENTATIVE SECTIONS, AS DETERMINED BY THE PROGRESS INSPECTOR, TOTALING AT LEAST 25% OF THE DUCT AREA, PER ECC C403.2.9.1.3 OR ASHRAE 90.1 6.4.4.2.2, SHALL BE TESTED TO VERIFY THAT ACTUAL AIR LEAKAGE IS BELOW ALLOWABLE AMOUNTS.	AFTER INSTALLATION AND SEALING AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL	C403.2.9.1.3; ASHRAE 90.1 – 6.4.4.2.2
IIC1	ELECTRICAL ENERGY CONSUMPTION: THE PRESENCE AND OPERATION OF ALL REQUIRED METERS FOR MONITORING TOTAL ELECTRICAL ENERGY USAGE, SYSTEM ENERGY USAGE, TENANT ENERGY USAGE, OR ELECTRICAL ENERGY USAGE IN THE BUILDING, IN INDIVIDUAL DWELLING UNITS, OR IN TENANT SPACES SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.6; ASHRAE 90.1 – 8.4.3, 8.4.5, 10.4.5
IIC2	LIGHTING IN DWELLING UNITS: LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE VISUALLY INSPECTED TO VERIFY COMPLIANCE WITH HIGH-EFFICACY REQUIREMENTS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.1; ASHRAE 90.1 – 9.1.1
IIC3	INTERIOR LIGHTING POWER: INSTALLED LIGHTING SHALL BE VERIFIED FOR COMPLIANCE WITH THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND TRANSFORMERS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.4.2, C405.9.1, C406.3; ASHRAE 90.1 – 9.1, 9.2, 9.5, 9.6; 1RCNY §101-07(C)(3)(V)(C)4
IIC4	EXTERIOR LIGHTING POWER: INSTALLED LIGHTING SHALL BE VERIFIED FOR COMPLIANCE WITH SOURCE EFFICACY AND/OR THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND RELEVANT TRANSFORMERS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.6; ASHRAE 90.1 – 9.4.2; 1RCNY §101-07(C)(3)(V)(C)4
IIC5	LIGHTING CONTROLS: EACH TYPE OF REQUIRED LIGHTING CONTROLS, INCLUDING: – OCCUPANT SENSORS – MANUAL INTERIOR LIGHTING CONTROLS – LIGHT-REDUCTION CONTROLS – AUTOMATIC LIGHTING SHUTOFF – DAYLIGHT ZONE CONTROLS – SLEEPING UNIT CONTROLS – EXTERIOR LIGHTING CONTROLS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES	C402.4.2.1, C405.2; ASHRAE 90.1 – 9.4.1, 9.4.3
IIC6	ELECTRIC MOTORS (INCLUDING BUT NOT LIMITED TO FAN MOTORS): WHERE REQUIRED BY THE CONSTRUCTION DOCUMENTS FOR ENERGY CODE COMPLIANCE, MOTOR LISTING OR LABELS SHALL BE VISUALLY INSPECTED TO VERIFY THAT THEY COMPLY WITH THE RESPECTIVE ENERGY REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403.2.12, C405.8; ASHRAE 90.1 – 10.4
IID1	MAINTENANCE INFORMATION: MAINTENANCE MANUALS FOR MECHANICAL, SERVICE HOT WATER AND ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTIVE MAINTENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS.	PRIOR TO SIGNOFF OR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ELECTRICAL DRAWINGS WHERE APPLICABLE; ASHRAE GUIDELINE 4: PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS	C303.3, C408.2.5.2; ASHRAE 90.1 – 4.2.2.3, 6.7.2.2, 8.7.2, 9.7.2.2

ARCHITECT

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8361828@gmail.com

STRUCTURAL ENGINEER

PROJECT

NEW BUILDING

1665 STILLWELL AVENUE
BROOKLYN NY 11223

DRAWING TITLE

ENERGY ANALYSIS

REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE	ISSUED TO

ISSUED

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Proj. No. 18-1665
Date 12-12-18
Scale AS NOTED
Drawn

SEAL

DRAWING NUMBER

EN-003.00

SHEET 25 OF 25

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Appendix B – Previous Environmental Reports

Provided Separately.

Appendix C – Remedial Investigation Work Plan (RIWP)

REMEDIAL INVESTIGATION WORK PLAN (RIWP)

1665 STILLWELL AVENUE
BROOKLYN, NY 11223
NYSDEC SITE NO. C224307

PREPARED FOR:

REFULGENCE LLC
8738 20th AVENUE
BROOKLYN, NY 11214

REVISION #1
NOVEMBER 2021

PREPARED BY:

AMERICAN ENVIRONMENTAL SOLUTIONS, INC.
42 WEST AVENUE
PATCHOGUE, NY 11772
(631) 475-0020/(631)475-0025 fax

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION, BUREAU B
625 BROADWAY, 12th FLOOR
ALBANY, NEW YORK 12233-7016

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FIGURES

Figure 1 Site Location Map
Figure 2 Site Plan
Figure 3 Proposed Sampling Locations

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Table 1 Proposed Sample Locations and Rationale

ATTACHMENTS

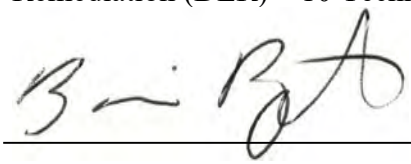
Attachment I EPA GW Monitoring Well Installation Guidance

APPENDICES

Appendix A Previous Environmental Reports
Appendix B Health & Safety Plan
Appendix C QAPP
Appendix D Community Air Monitoring Plan
Appendix E Citizen Participation Plan

CERTIFICATION

I, Brian Pendergast, certify that I am currently a Qualified Environmental Professional (QEP) as defined in 6 New York Codes, Rules and Regulations (NYCRR) Part 375 and that this Remedial Investigation Work Plan (RIWP) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) – 10 Technical Guidance for Site Investigation and Remediation.



11/24/2021

1.0 INTRODUCTION

American Environmental Solutions Inc. (AES) prepared this Remedial Investigation Work Plan (RIWP) on behalf of Refulgence LLC (the Participant) for the site located at 1665 Stillwell Avenue, Brooklyn, New York (the site). The Participant was accepted into the New York State Brownfield Cleanup Program (BCP) and a Brownfield Cleanup Agreement (BCA) was executed with New York State Department of Environmental Conservation (NYSDEC) on June 14, 2021.

The .184 acre site is partially developed with a single story concrete block building which is currently vacant and was previously occupied by a drycleaner, thrift shop and a dairy. The proposed redevelopment plan for the site includes demolition of the current site building and new construction of a five-story mixed use building with a cellar. The site location is shown on Figure 1.

Subsurface investigation activities were performed during June and July 2019 for the site by American Environmental Assessment & Solutions, Inc. (AEAS) of Brooklyn, New York. This investigation included soil, groundwater and soil vapor sampling and a geophysical survey. This RIWP discusses remedial investigation activities to be performed pursuant to the Brownfield Cleanup Agreement executed for the site in order to fully delineate the nature and extent of contamination on-site, to evaluate if contamination has emanated from the site and to provide sufficient data to advance the remediation of the site. The RIWP has been developed in general accordance with the process identified in the NYSDEC Technical Guidance for Site Investigation and Remediation (DER-10).

2.0 SITE BACKGROUND

2.1 Site Description

The site is located at 1665 Stillwell Avenue in the Gravesend section of Brooklyn, New York and is identified as Block 6618, Lot 48 on the New York City Tax map. The site is a rectangular-shaped lot measuring approximately 8,000 square feet, developed with a vacant one-story commercial building. The site location is shown on Figure 1. The site is located on the eastern side of Stillwell Avenue between Kings Highway to the north and Quentin Road to the south.

The site is currently vacant and pending demolition of the existing building for site redevelopment. Access to the site is via Stillwell Avenue to the west. The previous occupant of the site was identified as Ideal Cleaners from 1999 until 2014. The site was assigned an E-Designation for "Hazardous Materials" (E-145) by New York City Department of City Planning (NYCDCP) as part of the July 27, 2005, Bensonhurst Rezoning (CEQR 05DCP055K).

The current zoning designation is R6B; Residential District, with the Commercial overlay zoning C2-3 that allows for commercial usage. The proposed use is consistent with existing zoning for the property. The site plan is shown on Figure 2.

2.2 Surrounding Site Use

The site is located in a mixed-use area with commercial, residential and institutional site uses. Surrounding property usage is summarized below:

Direction	Adjacent Properties	Surrounding Properties
North	1663 Stillwell Avenue/126-136 Kings Highway - 1 story commercial building (garage)	Single and multi-story mixed use buildings along Stillwell Avenue and Kings Highway and multi-family residential housing in the surrounding vicinity
South	1677 Stillwell Avenue - 2 story residential building	
East	1672-1674 West 13th Street – 2 story mixed-use building 1664-1670 West 13th Street – 1 story public building occupied by Brooklyn Public Library – Highlawn Branch	
West	Stillwell Avenue 2271 78th Street – 2 story residential building 2273-2279 78th Street – 2 story residential building	

Sensitive receptors, as defined in DER-10, located within in a half mile of the site are listed below:

Site Name	Address	Contact Info
Intermediate School 96	99 Avenue P, Brooklyn NY 11204	(718) 236-1344 Erin Lynch, Principal
Gold Material Montessori School	105 Kings Hwy., Brooklyn NY 11214	(718) 253-2552 Maksim Knodrukevich
PS 97 – The Highlawn	1855 Stillwell Avenue, Brooklyn, NY 11223	(718) 627-7550 Irina Cabello, Principal
Hebrew Language Academy Charter School 2	1870 Stillwell Avenue Brooklyn, NY 11223	(718) 682-5610 Ashley Furan, Head of School
Success Academy	99 Avenue P, Floor 4 Brooklyn, NY 11204	(347) 514-7082 Kerri Lynch, Principal
Brooklyn School of Inquiry	50 Avenue P, 4th Floor Brooklyn, NY 11204	(718) 621-5730 Debra Nier, Administrative Secretary
PS 128 Bensonhurst	2075 84th Street Brooklyn, NY 11214	(718) 373-5900 Jessica Drzewucki, Principal/Administrator
Sinai Academy Junior High and High School	2025 79th Street Brooklyn, NY 11214	(718) 256-7400 Rabbi Aryeh Katzin, Principal
St. Peter Catholic Academy	8401 23rd Avenue Brooklyn, NY 11214	(718) 372-0025 Danielle Alfeo, Principal
Atidaynu – Our Future School LLC	7914 Bay Parkway Brooklyn, NY 11214	(718) 233-9098 Simi Bazov, Principal

Stillwell Avenue Prep & Nursery	1990 Stillwell Avenue Brooklyn, NY 11223	(718) 265-2220 Candy Juba, Executive Director
Brooklyn Studio Secondary School	8310 21st Avenue, Brooklyn, NY 11214	(718) 266-5032 Andrea Cilliotta, Principal
Magen David Yeshivah Celia Esses High School	7801 Bay Parkway Brooklyn, NY 11214	(718) 331-4002 Rabbi Saul Zucker, Principal

2.3 Site History

According to the Phase I Environmental Site Assessment (Phase I) prepared by AEAS dated May 9th, 2019 the site was developed sometime between 1950 and 1969. The building on-site measures approximately 2,400 square feet. The following occupants were identified in the Phase I:

- Grandview Dairy (1970 and 1973)
- Stillwell Dairy (1976)
- Wonder Hostess Thrift Shop (1985 and 1997)
- Ideal Cleaners (1999 through 2014)

2.4 Site Geology and Hydrogeology

Topography

The site is located in the Gravesend neighborhood in the western portion of Brooklyn, New York. The site is generally flat, with an average elevation of approximately 20 feet above mean sea level. Ground surface is covered by concrete and asphalt.

Geography

According to the previous environmental investigations performed by AEAS during 2019, stratigraphy consists of historic fill material from surface to four feet below grade underlain by clayey soil to a depth of twelve feet across the site. Soil encountered during the subsurface investigation consisted of brown, fine grained-silty to clayey soil, containing rocks.

Groundwater Flow

According to the previous environmental investigation performed by AEAS during 2019, depth to groundwater was measured at approximately 16-17 feet below grade. Site specific groundwater flow was determined to be southwest by AEAS. The nearest surface water body is Gravesend Bay located approximately 1.05 miles southwest of the site.

2.5 Previous Site Investigations

Previous site investigation reports are included in Appendix A. A summary of previous environmental investigations performed at the site is shown below:

Phase I Environmental Site Assessment (ESA), prepared by American Environmental Assessment & Solutions, Inc. (AEAS), dated May 9th, 2019

AEAS prepared a Phase I ESA in May 2019 in general conformance with ASTM International's Standard Practice for Environmental Site Assessments E1527-13 in order to identify recognized environmental conditions (RECs) associated with the site. The Phase I identified the following RECs for the site:

- The site was assigned an E-Designation for "Hazardous Materials" (E-145) by New York City Department of City Planning (NYCDCP) as part of the July 27, 2005, Bensonhurst Rezoning (CEQR 05DCP055K). Due to this "e" designation, a subsurface investigation was required before development could proceed and satisfaction from NYC Office of Environmental Remediation (OER) will be required before occupancy is permitted.

- Historical use of the site for dry cleaning activities from 1999 through 2014.

In addition to on-site RECs recognized environmental conditions off-site were identified in the Phase I as discussed below:

North Adjacent Property – 1663 Stillwell Avenue/126-136 Kings Highway

Review of Historical Sanborn Fire Insurance maps indicated the site adjacent to the north was occupied by an auto repair and gasoline station. Four underground storage tanks (USTs) were identified on the maps dated 1930 through 1981. The site was identified on the NY AST and NY E-designation databases. Historical site usage and the presence of USTs on-site may have impacted 1665 Stillwell Avenue and was identified as a concern.

A subsurface investigation was recommended in the Phase I ESA due to the site's historic use as a drycleaner and the "e" designation assigned by NYCDCP.

Phase II Subsurface Investigation, prepared by AEAS, dated July 24th, 2019

AEAS performed a Phase II Subsurface Investigation at the site during June 2019. The scope of work included:

- A geophysical survey of the site
- Installation of seven (7) soil borings and collection of fourteen (14) soil samples. One soil sample was collected from 0-2' below grade surface at each boring location.
  Samples were collected from 3-5' below grade surface at locations SB-1, SB-2, SB-3 and SB-4.
  Samples were collected from 10-12' below grade surface at locations SB-5, SB-6 and SB-7.

- Installation of temporary groundwater monitoring wells and collection of three (3) groundwater samples. Groundwater was encountered at depths ranging from 16.89 to 17.25 feet below grade during the investigation.
- Installation of soil vapor sampling probes and collection of six (6) soil vapor samples

Findings of the subsurface investigation activities are summarized below:

- **Soil Quality**

Volatile Organic Compounds (VOCs)

Soil sampling locations SB-3 and SB-6 contained the VOC acetone. SB-6 contained acetone in a concentration exceeding NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs). Acetone is a commonly used laboratory solvent and its presence may be due to lab contamination.

Sampling locations SB-1, SB-2, SB-6 and SB-7 contained the compound tetrachloroethene (PCE) in concentrations falling below UUSCOs. The presence of tetrachloroethene in subsurface soil may be attributed to historic dry cleaning operations on-site.

Semi-Volatile Organic Compounds (SVOCs)

Soil sampling locations SB-2, SB-3, SB-6 and SB-7 contained a number of SVOCs including benzo(a)anthracene, di-n-octylphthalate, fluoranthene, phenanthrene and pyrene. All SVOC concentrations detected fell below UUSCOs.

Metals

Metals were detected in all fourteen samples collected. All metals concentrations detected in both sample depths from boring location SB-1 fell below UUSCOs. Soil samples collected from boring locations SB-2, SB-3, SB-5, SB-6 and SB-7 contained a number of metals in concentrations exceeding UUSCOs. The sample collected from 0-2 feet below grade at SB-4 contained lead in a concentration (547 mg/kg) exceeding NYSDEC Part 375 Residential Use Soil Cleanup Objectives (RUSCOs).

There were no pesticides, polychlorinated biphenyls (PCBs) or emerging contaminants (per & polyfluoroalkyl substances (PFAS) and 1,4-dioxane) detected in the fourteen soil samples collected.

- **Groundwater Quality**

Four VOCs were identified in the groundwater samples obtained from monitoring wells MW-1 and MW-2 exceeding their respective Ambient Water Quality Standards and Guidance Values (AWQSGVs) for Glass GA groundwater as published in NYSDEC's TOGS 1.1.1.

The VOCs identified above their respective AWQSGVs are 2-Isopropyltoluene identified in MW-1 at a maximum level of 9.5 µg/L and in MW-2 at a maximum level of 5.5µg/L; Isopropylbenzene identified in MW-1 and MW-2 at a maximum level of 12µg/L; n-Propylbenzene identified in MW-2 at a maximum level of 19 µg/L; and sec-Butylbenzene identified in MW-1 at a maximum level of 21 µg/L.

Five SVOCs were identified in the groundwater samples obtained from MW-1 exceeding their respective AWQSGVs. The SVOCs identified in the groundwater sample from MW-1 exceeding their respective AWQSGVs are benzo(a)anthracene identified at a level of 0.07 µg/L; benzo(b)fluoranthene identified at a level of 0.07 µg/L; benzo(k)fluoranthene identified at a level of 0.06 µg/L; chrysene identified at a level of 0.05 µg/L; and indeno(1,2,3-cd) pyrene identified at a level of 0.03 µg/L.

Metals were detected in the groundwater samples collected in concentrations falling below AWQSCVs. There were no pesticides or PCBs detected in the groundwater samples collected.

One monitoring well location (MW-1) was sampled and analyzed for emerging contaminants. A number of PFAS compounds were identified in the sample collected from MW-1.

There were no VOCs or SVOCs detected in the groundwater sample from the down-gradient monitoring well sample MW-3.

- **Soil Vapor Findings**

The soil vapor samples collected indicated concentrations of VOCS were detected in the soil vapor samples in concentrations exceeding New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion (October 2006, updated May 2017) Guidance Values and Decision Matrix.

Petroleum related VOCs detected in the soil vapor samples included Toluene at concentrations ranging from 9.34µg/m3 to 39.9µg/m3 in all six soil vapor locations; Benzene was identified at a concentration ranging from 6.77 µg/m3 to 36.4 µg/m3; Ethylbenzene at concentrations ranging from 9.37 µg/m3 to 69.4 µg/m3; and o-Xylene at concentrations ranging from 7.2 µg/m3 to 72.5 µg/m3.

Chlorinated related VOCS detected in the soil vapor samples included Tetrachloroethene (PCE) at concentrations ranging from 231µg/m3 to 3,730µg/m3; and Trichloroethene (TCE) at concentrations ranging from 1.93µg/m3 to 73.6µg/m.

PCE and TCE were detected at concentrations above monitoring level ranges established within the NYSDOH Soil Vapor Guidance Matrices, and above the minimum soil vapor concentrations, as set forth in the NYSDOH AGV. SV-5 and SV-6 were installed in the former storage shed and building. The highest levels of soil vapor contamination was detected in the storage shed where the dry cleaning chemicals were previously stored. The storage shed is located up-gradient and the ground surface in the shed was observed to be paved with concrete.

- **Conclusions**

Based on the findings of the subsurface investigation performed in June 2019 AEAS made the following conclusions:

Metals were detected exceeding their respective UUSCOs mainly from the soil samples collected from 0-2 feet below grade. The sample collected from 0-2 feet below grade at SB-4 contained lead in a concentration (547 mg/kg) exceeding NYSDEC Part 375 Residential Use Soil Cleanup Objectives (RUSCOs). Material from depths of 0-2 feet below grade is expected to be excavated during redevelopment of the Site. The end-use of the Site will be mixed use with commercial use on the first floor and multi-family residential units on floors two through five.

VOCs and SVOCs were identified in the groundwater up-gradient in the northeast and eastern portion of the Site. The VOCs and SVOCs identified exceeding groundwater quality standards are likely from both on-site and off-site sources. The northern adjacent property was historically a gasoline station and currently used as an auto repair facility. VOCs or SVOCs were not detected in the groundwater sample from the down-gradient monitoring well sample.

VOCs were identified in the soil vapor samples exceeding New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion (October 2006, updated May 2017) Guidance Values and Decision Matrix. Chlorinated related VOCS detected in the soil vapor samples included Tetrachloroethene (PCE) at concentrations ranging from 231µg/m3 to 3,730µg/m3; and Trichloroethene (TCE) at concentrations ranging from 1.93µg/m3 to 73.6µg/m, above monitoring level ranges established within the NYSDOH Soil Vapor Guidance Matrices, and above the minimum soil vapor concentrations, as set forth in the NYSDOH AGV. SV-5 and SV-6 were installed in the proposed parking area and the former storage shed and building. The highest levels of soil vapor contamination was detected in the storage shed where the dry cleaning chemicals were stored. The storage shed is located up-gradient and the ground surface in the shed was observed paved with concrete.

AEAS identified the specific area of concern as the northeastern portion of the site, in the shed area, where the dry cleaning solvents were stored and soil vapor impacts were identified at the highest level. Elevated levels of PCE and TCE were detected in the soil vapor sample collected adjacent to the shed. No known additional sources of contamination were identified other than low-levels of up-gradient groundwater impacts.

Data Usability Summary Reports (DUSRs) were not provided for the June 2019 Phase II laboratory data. This Phase II data will be utilized for historical purposes.

2.6 Proposed Redevelopment Plans

The proposed redevelopment plan includes construction of a new five story mixed use building with a basement. The building foundation will be at a depth of 10 feet, 4 inches. The footprint of the proposed building upon completion will be approximately 4,030 square feet. The cellar will contain the electric room, refuse room, bicycle parking elevator, gas and sprinkler room and common areas. Upon completion the proposed building will measure approximately 15,904.30 square feet. The building will contain sixteen units of residential housing on floors two through five and retail/commercial usage on the first floor.

The eastern portion of the site will be a paved parking area with eight parking spaces. A driveway will be constructed on the southern portion of the site, providing access to the rear yard.

3.0 SCOPE OF WORK

The objective of this RIWP is to investigate and characterize the nature and extent of the contamination at the site, per Environmental Conservation Law (ECL) Article 27, Title 14 (Brownfield Cleanup Program). The field investigation will include the tasks listed below to supplement the data and findings of previous investigations. Proposed sample locations are shown on Figure 3. The rationale for each sampling location and analytical parameters for each proposed sample are provided in Table 1. The field tasks are discussed in more detail in the following sections.

Soil Borings and Sampling

- Advance ten soil borings to approximately 14-16 feet below grade.
- Collect three soil samples from each boring, for a total of up to 30 soil samples
- Samples will be collected from 0-2’ below grade surface, 6-8’ below grade surface and 14-16’ below grade surface at each boring location

QC Sampling for Soil

- One blind duplicate will be collected per every 20 samples collected
- One matrix spike/matrix spike duplicate will be collected per every 20 samples collected
- One equipment blank will be collected per day
- One field blank per day
- One trip blank per day

Monitoring Well Installation and Groundwater Sampling

- Install and develop six permanent monitoring wells
- Wells will be purged in accordance with Section 3.2.1 prior to sample collection
- Collect one groundwater sample from each monitoring well (plus QA/QC samples) for laboratory analysis

- Survey and gauge monitoring wells to evaluate groundwater elevations and verify groundwater flow direction

QC Sampling for Groundwater

- One blind duplicate will be collected per every 20 samples collected
- One matrix spike/matrix spike duplicate will be collected per every 20 samples collected
- One equipment blank will be collected per day
- One field blank per day
- One trip blank per day

Soil Vapor and Ambient Air Sampling

- Install four soil vapor points to approximately 10 feet below grade
- Collect one soil vapor sample from each sampling point for laboratory analysis
- Collect one ambient air sample from outdoor air

3.1 Soil Investigation

An environmental drilling subcontractor will advance ten soil borings (designated SB-1 through SB-10) to further investigate the AOC located in the northeastern corner of the site and to evaluate if contaminants are migrating from the site. A plan showing proposed boring locations is included as Figure 3. All work will comply with the safety guidelines outlined in the site specific HASP located in Appendix B.

Soil borings will be advanced to approximately 16 feet bgs using direct-push drilling technology (Geoprobe®). The AES Project Manager and Field Technician will document the work, screen the soil samples for environmental impacts and vapors using a photoionization detector (PID), and collect soil samples for laboratory analyses per Section 3.1.2. Soil will be screened continuously to the boring termination depth using a PID and for visual and olfactory indications of environmental impacts such as staining and odor. Soil descriptions will be recorded in boring logs. All borings will be advanced with the Geoprobe® using macrocores with disposable acetate liners.

Any non-disposable sampling equipment will be decontaminated between locations with Alconox® (or similar) and water where grossly impacted material is identified, if applicable. Following sampling, each soil boring will be backfilled with soil cuttings that are not grossly impacted and/or clean sand.

3.1.1 Soil Sampling and Analysis

Three soil samples will be collected for laboratory analysis from each boring. One sample will be collected from the 0-2 foot and 6-8 foot bgs intervals. A third sample will be collected from within two feet of the groundwater interface at approximately 14-16’ bgs.

All soil samples will be screened with a PID and readings will be recorded on boring logs by the field technician. Any soil encountered outside of 0-2' bgs, 6-8' bgs and 14-16' bgs that exhibits gross contamination or exhibits high PID readings will also be sampled.

Proposed soil sampling locations and analysis are summarized in Table 1. Any non-disposable drilling equipment and sampling apparatus will be decontaminated between locations with Alconox® and water. The number of samples collected during the RI may vary based on field conditions.

The samples will be collected in laboratory-supplied containers and will be sealed, labeled, and placed in an ice-chilled cooler (to maintain a temperature of about 4ºC) for delivery to a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory. Soil samples will be analyzed using the latest USEPA methods as follows:

- Target Compound List (TCL) volatile organic compounds (VOCs) by USEPA methods 8260C/5035
- TCL SVOCs by USEPA method 8270D
- PCBs by USEPA method 8082A
- Target Analyte List (TAL) Metals (plus cyanide and hexavalent and trivalent chromium) by USEPA Methods 6010C/7471B/9010C/7196A.
- Pesticides by USEPA methods 8081B
- 1,4-dioxane by USEPA Method 8270 SIM isotope dilution
- Perfluoralkyl Substances (PFAS) by EPA Method 537

Sampling and analysis will be performed in accordance with the Quality Assurance Project Plan included in Appendix C.

3.2 Groundwater Investigation

Six of the soil borings will be converted to permanent groundwater monitoring wells (GW-1 through GW-6) to monitor groundwater conditions on-site. During well installation, soil conditions will be screened, logged, and sampled. A plan showing the proposed well locations is included as Figure 3. Proposed groundwater sampling locations and analysis are summarized in Table 1.

The proposed monitoring wells will be constructed using 2-inch-diameter polyvinyl chloride (PVC) riser pipe attached to 10-foot long, schedule-40, 0.01-inch slotted, 2-inch-diameter PVC screen. Each monitoring well will be installed so that the well screen straddles the observed water table. The well annulus around the screen will be backfilled with clean sand to about 2 feet above the top of the screen. A minimum 2-foot bentonite seal will be installed above the sand, and the borehole annulus will be backfilled with non-impacted soil cuttings and/or clean sand. The wells will be finished with flush-mounted metal manhole covers set in concrete.

Following installation, the wells will be developed using a surge block and/or a weighted bailer across the well screen to agitate and remove fine particles. The surge block and/or bailer will be surged across the submerged well screen in 2- to 3-foot increments for approximately 2 minutes per increment. After surging, the well will be purged via pumping until the water becomes clear. The well will then be allowed to recharge for a minimum of one week before sampling.

Upon completion of the groundwater monitoring well installation, vertical locations of the monitoring wells will be surveyed, including ground surface elevation, outer casing elevation and inner casing elevation. This data will be used with groundwater well gauging data to prepare a sample location plan and a groundwater contour map depicting water table elevations across the site. Elevations of the top of the monitoring well casings and protective well casings will be surveyed to the nearest .01 foot. Groundwater wells will be installed in accordance with the Environmental Protection Agency (EPA) guidance included in Attachment I.

3.2.1 Groundwater Sampling and Analysis

One groundwater sample will be collected from each installed monitoring well. Prior to sampling, the monitoring wells will be gauged for static water levels and each well will be purged. Physical and chemical parameters (e.g., temperature, dissolved oxygen, oxidation-reduction potential, pH and turbidity) will be allowed to stabilize to the ranges specified in the USEPA Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, dated July 30, 1996 and revised September 19, 2017.

Samples will be collected with a submersible low flow pump or equivalent and dedicated polyethylene tubing. The pump will be decontaminated with Alconox (or similar) and water between each sample location. Development and purge water will be containerized for off-site disposal.

The groundwater samples will be collected in laboratory-supplied containers and will be sealed, labeled, and placed in an ice-chilled cooler (to maintain a temperature of about 4ºC) for delivery to the laboratory. Groundwater samples will be analyzed using the latest USEPA methods as follows:

- TCL VOCs by USEPA method 8260C
- TCL SVOCs by USEPA method 8270D
- 1,4-dioxane by USEPA method 8270 SIM isotope dilution
- PCBs by USEPA method 8082A
- Metals (filtered and unfiltered) by USEPA method 6010C/7470
- Pesticides and herbicides by EPA methods 8081B and 8151A, respectively
- PFAS by EPA Method 537

QA/QC procedures to be followed are described in the QAPP in Appendix C.

3.3 Soil Vapor Investigation

Based on the findings of the preliminary site investigation performed by AEAS, additional soil gas sampling is necessary to evaluate the potential for vapor intrusion associated with historical site use as a dry cleaning facility. Four soil vapor samples will be collected from beneath paved areas on-site and one sample will be collected from ambient outdoor air. Proposed soil vapor sampling locations are shown on Figure 3.

3.3.1 Soil Vapor Sampling Point Installation

Soil vapor sampling point installation and sample collection will be performed in accordance with the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, revised May 2017 and the USEPA Standard Operating Procedure (SOP) 2042, Soil Gas Sampling.

Sampling points will be installed using a Geoprobe direct-push drill rig to a depth comparable to the depth of the future building's foundation footings or at least one foot above the water table. Sampling points will be constructed of a dedicated stainless-steel screen fitted with inert tubing (i.e., polyethylene or Teflon) to grade. Porous inert backfill will be added to create a sampling zone 1 to 2 feet in length. The sampling point will be sealed above the sampling zone with a bentonite seal to surface grade.

At least three volumes of air will be purged from each sampling point at a rate of less than .2 liters per minute prior to sample collection. Purged soil vapor will be screened with a PID.

3.3.2 Soil Vapor Sample Collection

Soil vapor samples will be collected over an eight-hour duration utilizing 6-liter summa cans fitted with 8-hour flow regulators. After purging, a soil gas sample will be collected by connecting the tubing to a summa canister. The summa canisters will have been previously decontaminated and certified to be free of VOCs by the laboratory. The summa canister will be prepared by the laboratory so that the sample vessel is under a high vacuum of approximately 26 inches of mercury. A grab sample from each soil gas probe will be collected by opening the canister valve and the vacuum will "pull" the sample into the canister. Each soil gas sample will be analyzed for VOCs by EPA Method TO-15.

The field sampling team will maintain sample logs including the following information:

- Sample identification
- Data and time of sample collection
- Sampling depth
- Name of sampler
- Sampling methods and devices
- Purge volumes
- Volume of soil vapor extracted
- The vacuum before and after samples are collected in canisters

- Apparent moisture of the sampling zone
- Chain of custody protocols and records used to track samples from sampling point to analysis

3.3.3 Ambient Air Sampling

One ambient air sample will be collected from outdoor air over an 8-hour sampling duration concurrently with soil vapor sampling on-site. The summa canister will be placed at a height above the ground to represent the breathing zone (approximately 4-5 feet) and analyzed for VOCs by EPA Method TO-15.

3.4 Management of Investigation Derived Waste

Investigation derived waste (IDW) generated during RI activities on-site will generally include contaminated soil cuttings, purged groundwater and miscellaneous disposable sampling equipment and PPE. Soil cuttings that do not exhibit visual or olfactory evidence of contamination may be used to backfill boring holes. Excess soil cuttings or cuttings exhibiting staining, odor or PID readings generated during RI activities will be stored in 55-gallon drums equipped with tight fitting lids. Drummed soil will be characterized for disposal and transported to a permitted facility pursuant to all federal state and local regulations. All drums containing soil cuttings or groundwater will be labeled to indicate their contents.

Development and purged groundwater generated during RI activities will be stored in 55-gallon drums equipped with tight fitting lids. Purged groundwater will be characterized for disposal and transported to a permitted facility pursuant to all federal state and local regulations. Transportation manifests and disposal facility weight tickets for all IDW generated during RI activities will be provided to NYSDEC.

Disposal sampling equipment such as macro core liners, spoons, gloves, paper towels may be double bagged and disposed of as municipal trash as non-hazardous refuse.

4.0 REMEDIAL INVESTIGATION REPORT

Upon completion of the RI activities and the receipt of analytical results a Remedial Investigation Report (RIR) will be prepared by AES. The RIR report will summarize the activities completed during the RI including analytical results, well construction and sampling logs, Data Usability Summary Reports (DUSRs) and laboratory data packages. Scaled figures showing sampling locations and areas of contamination exceeding applicable standards for soil, groundwater and soil vapor will be provided. Laboratory analytical reports will be summarized in tables comparing the results to applicable standards and remedial options will be evaluated.

The RIR will also include:

- A summary of the site history and previous investigations
- A description of site conditions
- An evaluation of laboratory results and findings
- Conclusions and recommendations for further assessment (if necessary) and remedial action objectives (RAOs)

The RIR will summarize the nature and extent of contamination at each area of concern and identify exposure pathways via a Qualitative Human Health Exposure Assessment.

All analytical data to be utilized for selection of the remedy will be submitted in NYSDEC Category B Electronic Data Deliverables (EDDs). EDDs will be generated using the NYSDEC's Environmental Information management System (EIMS) database software application EQuIS.

Data validation reports (DUSRs) will be provided for all analytical data collected during the RI.

5.0 COMMUNITY AIR MONITORING

A Community Air Monitoring Plan (CAMP) has been prepared for RI work in accordance with DER-10 requirements for remedial investigation. The CAMP is included in Appendix D.

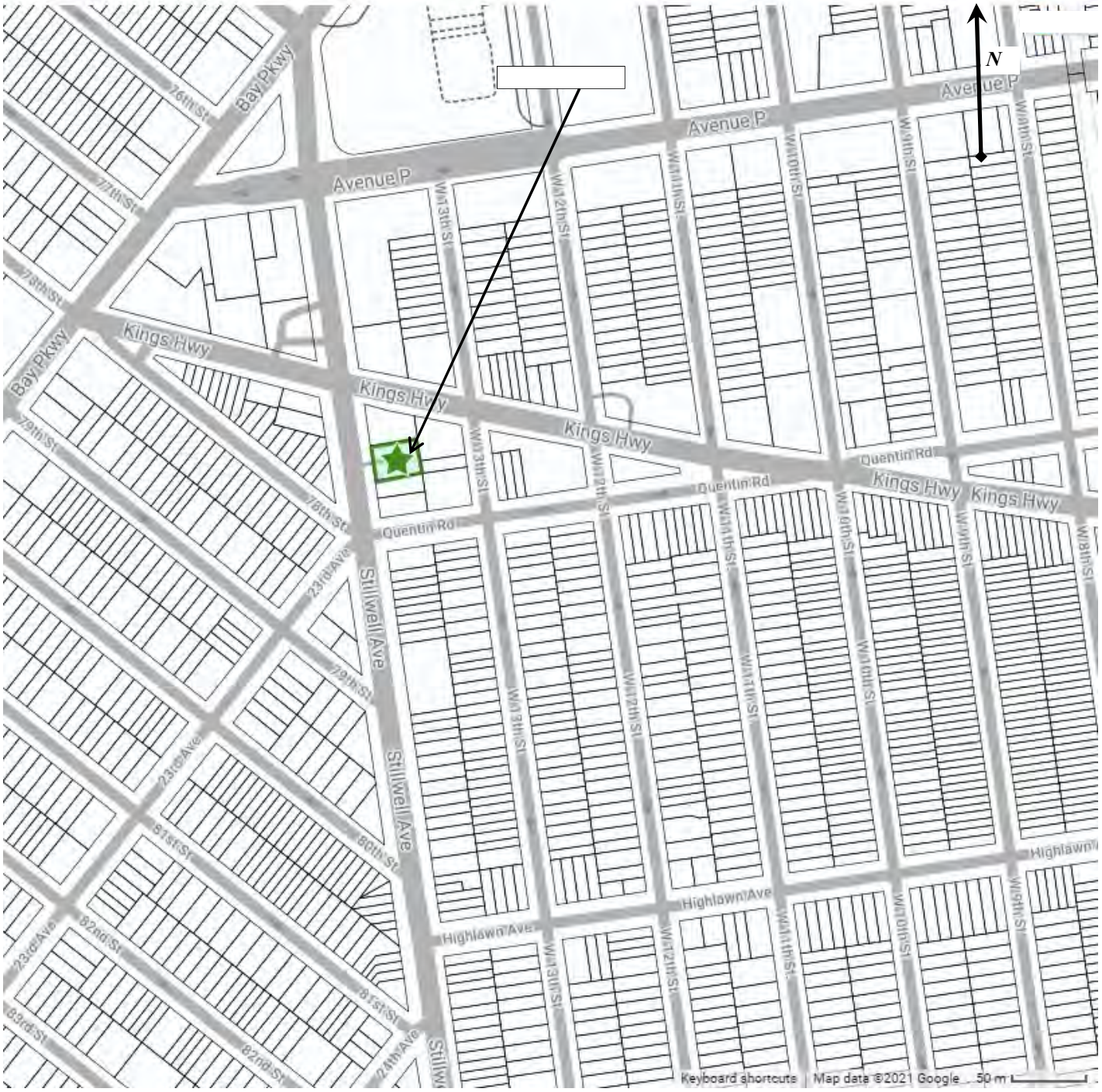
6.0 CITIZEN PARTICIPATION

Citizen participation activities will be performed throughout the RI process to involve and inform the public. The specific citizen participation activities to be performed are outlined in the Citizen Participation Plan (CPP) included as Appendix E.

7.0 PROJECT SCHEDULE

The project schedule has been updated to reflect completed tasks and events as of November 2021 as shown below:

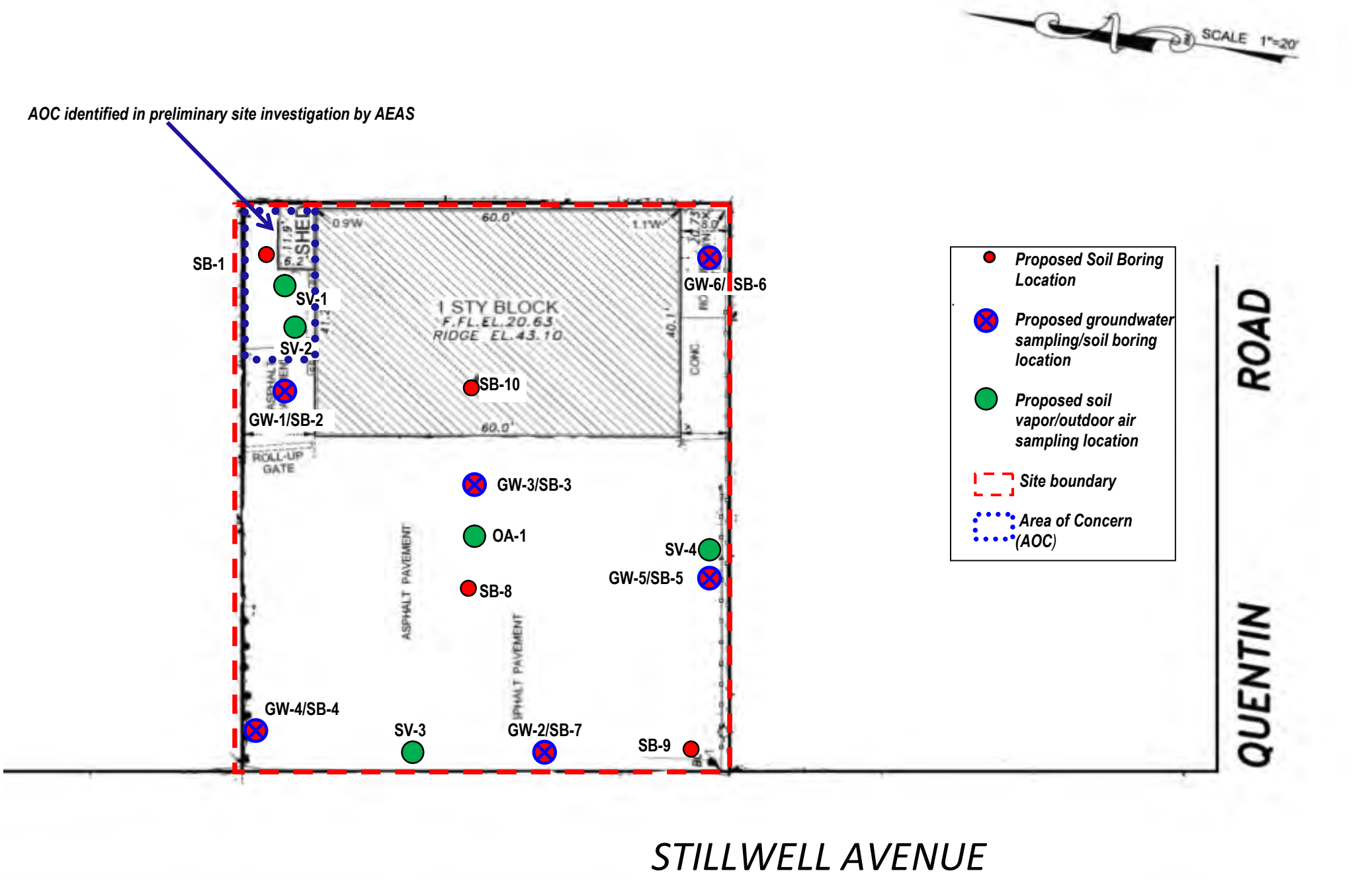
TASK	TIMELINE
RIWP 30-day Public Comment Period	December 2021 - January 2022
Mobilize to site to implement the RI and collect soil, groundwater and soil vapor samples	Within 4 weeks from RIWP approval
Submit Site Demolition Plan	4 weeks prior to site demolition
Submit Remedial Investigation Report (RIR) to NYSDEC for approval	Within 6-8 weeks of receiving analytical data from lab
Submit Remedial Action Work Plan (RAWP) for NYSDEC review and 45-day Public Comment Period	Within 4-6 weeks of receiving NYSDEC approval of RIR



1665 Stillwell Avenue **Brooklyn, NY 11223** **NYSDEC BCP Site No. C224307**	AES Project No. 0880 Remedial Investigation Work Plan	**Figure 1** **Site Location Map** **American Environmental Solutions, Inc.**



1665 Stillwell Avenue **Brooklyn, NY 11223** **NYSDEC BCP Site No. C224307**	AES Project No. 0880 Remedial Investigation Work Plan	**Figure 2** **Site Plan** **American Environmental Solutions, Inc.**



NYSDEC BCP Site Number C224307 **1665 Stillwell Avenue, Brooklyn**	**REMEDIAL INVESTIGATION WORK PLAN** **Revision #1, November 2021**	**FIGURE 3: PROPOSED SAMPLING LOCATIONS** **American Environmental Solutions, Inc.**

TABLE 1: PROPOSED SAMPLE LOCATIONS AND RATIONALE

Sample Media	Sample/Boring ID and Depth	Proposed Location	Proposed Analysis	Rationale
SOIL	SB-1 0-2' bgs 6-8' bgs 14-16' bgs	Northwestern corner of site, adjacent to shed	Target analyte list metals Target compound list Semi-Volatile organic compounds (SVOCs) Target compound list Volatile organic compounds (VOCs) PCBs Pesticides PFAS 1,4-Dioxane	Evaluate area of concern near chemical storage shed
	SB-2 0-2' bgs 6-8' bgs 14-16' bgs	North side of site building, near site perimeter, groundwater location GW-1		North site boundary to evaluate potential off-site migration of contaminants and evaluate area of concern
	SB-3 0-2' bgs 6-8' bgs 14-16' bgs	Center of the site, immediately west of building, groundwater location GW-3		Evaluate soil conditions at center of site
	SB-4 0-2' bgs 6-8' bgs 14-16' bgs	Northwestern corner of the site, at property line, groundwater location GW-4		Evaluate potential off-site migration of contaminants
	SB-5 0-2' bgs 6-8' bgs 14-16' bgs	South side of lot in parking area at property line, groundwater location GW-5		Evaluate potential off-site migration of contaminants
	SB-6 0-2' bgs 6-8' bgs 14-16' bgs	Southeastern corner of the site, at property line groundwater location GW-6		Evaluate potential off-site migration of contaminants
	SB-7 0-2' bgs 6-8' bgs 14-16' bgs	Western boundary of site, near Stillwell Avenue, groundwater location GW-2		Evaluate potential off-site migration of contaminants
	SB-8 0-2' bgs 6-8' bgs 14-16' bgs	Center of the parking area		Evaluate impacts beneath parking lot
	SB-9 0-2' bgs 6-8' bgs 14-16' bgs	Southwest corner of site at property line		Evaluate potential off-site migration of contaminants
	SB-10 0-2' bgs 6-8' bgs 14-16' bgs	Within building foot print, western side of building interior		Evaluate potential impacts beneath building slab

Sample Media	Sample/Boring ID and Depth	Proposed Location	Proposed Analysis	Rationale
	GW-1	Northern site boundary	Target analyte list metals Target compound list Semi-Volatile organic compounds (SVOCs) Target compound list Volatile organic compounds (VOCs) PCBs Pesticides PFAS 1,4-Dioxane	Evaluate groundwater quality in area of concern and potential off-site migration of contaminants
	GW-2	Western boundary of site, near Stillwell Avenue		Evaluate potential off-site migration of contaminants
	GW-3	Center of the site, immediately west of building		Evaluate conditions at center of site
	GW-4	Northwestern corner of the site, at property line		Evaluate potential off-site migration of contaminants
	GW-5	South side of lot in parking area at property line		Evaluate potential off-site migration of contaminants
	GW-6	Southeastern corner of the site, at property line		Evaluate potential off-site migration of contaminants

Sample Media	Sample/Boring ID and Depth	Proposed Location	Proposed Analysis	Rationale
SOIL VAPOR	OA-1	Ambient air outside building	TO-15 VOCs	Evaluate outdoor air
	SV-1 10’ bgs	North side of site building immediately south of shed		Evaluate soil vapor in area of concern
	SV-2 10’ bgs	North side of site building, south of shed		Evaluate soil vapor in area of concern
	SV-3 10’ bgs	Western boundary of site, near Stillwell Avenue		Evaluate potential off-site migration of contaminants
	SV-4 10’ bgs	South side of lot in parking area at property line		Evaluate potential off-site migration of contaminants

ATTACHMENT I

EPA GW MONITORING WELL INSTALLATION GUIDANCE

Appendix

NYSDEC currently relies on US EPA / ASTM guidance and best management practices. EPA guidance can be read at the following link: https://www.epa.gov/sites/production/files/2014-03/documents/appendix_m_monitor_well_installation.pdf

Unless site geology or site conditions do not permit the following, GWI bisecting monitoring wells shall be installed per the guidance below:

1. Monitoring wells installed must follow best management practices as found in applicable ASTM and US EPA guidance. The following requirements are outlined below:

    a) Monitoring wells must be constructed of 2-inch PVC well screen and riser. When wells are designed as clusters, each monitoring well must have a minimum of two inches of annular space surrounding the well casing.

    b) For groundwater interface wells, the screen interval shall extend at least two feet above the observed groundwater elevation to allow for variations in hydraulic head.

    c) The annular space surrounding the screen must be filled with No. 0 or 00 Morie sand or equivalent filter sand to an elevation of one foot above the well screen interval.

    d) Above the sand pack, a 1-foot (minimum) hydrated bentonite seal must be installed to isolate the sampling interval.

    e) The remainder of the borehole will be grouted, and the monitoring wells must be completed to grade.

    f) Monitoring well locations and elevations must be surveyed to a known datum so that the groundwater elevation can be accurately calculated. .

    g) No less than 24 hours after the monitoring well has been completed to grade, the monitoring well must be developed or pumped until the column of water in the well is free of visible sediment, and the pH, temperature, turbidity, and specific conductivity have stabilized.

    h) Prior to sample collection, all monitoring wells must be purged in accordance with NYSDEC DER-10, Section 2.1.

APPENDIX A
PREVIOUS ENVIRONMENTAL INVESTIGATIONS

(Provided in a separate electronic file)

APPENDIX B
HEALTH & SAFETY PLAN
(HASP)

HEALTH AND SAFETY PLAN
(HASP)

1665 STILLWELL AVENUE
BROOKLYN, NY 11223
NYSDEC SITE NO. C224307

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION, BUREAU B
625 BROADWAY, 12th FLOOR
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AES Project No. 0880

AUGUST 2021

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CERTIFICATION

This Health & Safety Plan has been reviewed and certified by:



_____
Brian Pendergast
Health & Safety Program Manager

PURPOSE AND SCOPE OF PROJECT HEALTH AND SAFETY PLAN

Refulgence LLC (the owner) employees and subcontractors may be exposed to hazardous conditions related to remedial activities and site redevelopment at the site located at 1665 Stillwell Avenue, Brooklyn, New York (NYSDEC Site No. C224307). The owner's policy is to minimize the possibility of work-related injury through qualified supervision, health and safety training, medical monitoring, and the use of personal protective equipment.

The owner has established a guidance program to implement this corporate policy. The objective of this Health and Safety Plan (HASP) for the 1665 Stillwell Avenue project is to protect site personnel and the surrounding community from potential exposure to safety or health hazards associated with work activities to be performed on-site. This HASP describes the procedures and protocols for addressing and mitigating exposure to possible physical and chemical hazards that may be present on-site during the implementation of the planned remedial and construction activities. The plan is also designed as a source of information and to be utilized as a guidance document for all personnel (Refulgence employees and subcontractors) entering the work area. All persons are to acknowledge that they understand the site hazards and the contents of this HASP by signing off on this plan. Refulgence's subcontractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees. Overall coordination of safety will be the responsibility of the owner. Refulgence employees and subcontractors are expected to follow the HASP and sign the Acknowledgement form included in Appendix A.

The Owner requires that its personnel perform daily work activities using safe management practices and take the necessary safety precautions in accordance with this HASP. All second and third tier subcontractors working on the site must take the necessary safety measures to protect their personnel from injury and/or exposure.

1.0 INTRODUCTION

This document describes the health and safety guidelines developed by American Environmental Solutions, Inc. (AES) of Patchogue, New York for the 1665 Stillwell Avenue project, located in Brooklyn, New York, to protect on-site personnel, visitors, and the public from physical harm and exposure to non-hazardous contaminated or hazardous waste materials or hazardous conditions associated with site remediation and redevelopment.

In accordance with the Occupational Safety Health Administration (OSHA) Construction Industry Safety and Health Regulations at 29 CFR Part 1926 and OSHA Hazardous Waste Operations and Emergency Response Regulations at 29 CFR 1910.120, this HASP, including the attachments, addresses safety and health hazards which may be encountered during site remediation and redevelopment. The HASP may be revised by AES upon receipt of new information of onsite conditions. All changes will be documented by written amendments signed the Superintendent and the Site Health and Safety Officer and shall be submitted to the NYSDEC for review and approval. The Site Safety Plan Amendment Form is included in Appendix B.

1.1 Site Background and Description

The site is located at 1665 Stillwell Avenue in the Gravesend section of Brooklyn, New York and is identified as Block 6618, Lot 48 on the NYC Tax map. The site is a rectangular-shaped lot measuring approximately 8,000 square feet, developed with a vacant one-story commercial building. The site is located on the eastern side of Stillwell Avenue between Kings Highway to the north and Quentin Road to the south. The site location is shown on Figure 1.

The .184 acre site is partially developed with a single story concrete block building which is currently vacant and was previously occupied by a drycleaner, thrift shop and a dairy. The proposed redevelopment plan for the site includes demolition of the current site building and new construction of a five-story mixed use building with a cellar.

The site is currently vacant and pending demolition of the existing building for site redevelopment. Access to the site is via Stillwell Avenue to the west. The previous occupant of the site was identified as Ideal Cleaners from 1999 until 2014. The site was assigned an E-Designation for “Hazardous Materials” (E-145) by New York City Department of City Planning (NYCDCP) as part of the July 27, 2005, Bensonhurst Rezoning (CEQR 05DCP055K).

Subsurface investigation activities were performed during June and July 2019 for the site by American Environmental Assessment & Solutions, Inc. (AEAS) of Brooklyn, New York. This investigation included soil, groundwater and soil vapor sampling and a geophysical survey.

VOCs were detected in all six soil vapor samples collected during the preliminary subsurface investigation performed by AEAS. Chlorinated solvents (tetrachloroethene and trichloroethene) were detected in the soil vapor samples in elevated levels throughout the site, particularly in the northeast corner of the site adjacent to the shed where dry cleaning chemicals associated with previous site use were stored.

Findings of the preliminary investigation indicated one soil sample location contained the metal lead in a concentration exceeding NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Residential Soil Cleanup Objectives (RSCOs). A number of additional metals were detected in the samples in concentrations falling below UUSCOs. There were no VOCs, SVOCs, Pesticides or PCBs detected in soil sample in concentrations exceeding UUSCOs.

Two groundwater monitoring wells sampled during the preliminary investigation contained VOCs and SVOCs in concentrations exceeding Ambient Water Quality Standards and Guidance Values for groundwater as published in NYSDEC TOGS 1.1.1. Compounds detected exceeding NYSDEC criteria included: 2-Isopropyltouene, isopropylbenzene, propylbenzene, sec-butylbenzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and indeno(1,2,3-cd)pyrene.

The owner will implement engineering and institutional controls during site remediation and redevelopment activities in order to limit worker and public exposure to contaminated materials in subsurface material on-site.

1.2 Training Requirements

All site workers will possess Occupational Health & Safety Administration (OSHA) 10-Hour Construction Safety and Health Training. All employees at the work site will make their training certifications available for review upon request including OSHA 10-hour construction safety training cards.

40-Hour HAZWOPER training is required for site workers entering hazardous waste remediation areas. All appropriate personnel entering these work areas must have met all training requirements for hazardous waste site operations and emergency response operations in accordance with OSHA 29 CFR 1910.120(e) (HAZWOPER training) and 29 CFR 1926.65. Personnel involved with these activities will also be required to have met the OSHA HAZWOPER training.

Documentation of personnel training will be maintained by the Project Manager at the site for all employees. If an employee's 40-Hour OSHA training certificate has exceeded the allowable year limit, an 8-Hour Refresher Training certificate will be required. Each employee, subcontractor and supplier working on the job must provide the Site Health and Safety Officer with appropriate training documentation for its personnel and this documentation must be maintained on file at the project site. This documentation will be reviewed by the Health and Safety Officer (HSO) to ensure compliance with site-specific health and safety rules. The HSO may require modifications to the subcontractors' or

suppliers' safety training documentation if it does not conform to site-specific requirements.

1.3 Site Health and Safety Plan Acceptance Acknowledgement

The Project Manager and the HSO are responsible for informing all personnel, employees (and/or owners' or owners' representatives) entering the work area of the contents of this plan and ensuring that each person signs the Health and Safety Plan Acknowledgement Form in Appendix B, thereby acknowledging the on-site hazards and procedures required to minimize exposure to these hazards. A Sign In/Sign Out log and a Daily Site Safety Log are also included in Appendix A. Amendments to the HASP are acknowledged by completing the form in Appendix B.

1.4 Daily and Weekly Safety Meetings

The HSO will hold daily and weekly safety meetings to ensure that all on-site personnel understand the site conditions and operating procedures and to address safety questions and concerns. Meetings minutes and attendance will be recorded at the meetings. All personnel eligible to enter the work areas must attend the meetings and will not be allowed on site unless they attend the meeting or are provided equivalent documented safety briefing.

1.5 Roles and Responsibilities

The Project Manager is responsible for overall project administration. The HSO is responsible for supervising implementation of the HASP by site personnel and subcontractors on-site. When the HSO is absent from the site, the Superintendent may assume the on-site responsibilities of the HSO. All applicable local, state, and federal health and safety standards and project specifications shall apply. The HSO shall oversee daily safety issues and conduct daily safety meetings at the project site. Each subcontractor (defined as an OSHA employer) is also responsible for the health and safety of its own employees and must adhere to this HASP. If there is any dispute regarding health and safety or project activities, on-site personnel shall attempt to resolve the issue. If the issue cannot be resolved in the work zone, then the Project Manager or the NYSDEC shall be consulted.

The HSO is also responsible for coordinating health and safety standards on-site. The Site Health and Safety Officer will have met the emergency response and hazardous materials handling training requirements of OSHA 29 CFR Part 1910.120 and all other required training. The Site Health and Safety Officer is authorized to suspend site work based on safety concerns, and is responsible for:

1. Indoctrinating personnel with regard to all of the information in this HASP and any other safety requirements to be observed during site operations, including but not limited to, designation of work zones and levels of protection, air monitoring, and emergency procedures dealing with fire and medical situations;

2. Coordinating site safety decisions with the Project Manager;
3. Maintaining the designation of exclusion, decontamination, and support zones on a daily basis;
4. Monitoring the condition and status of known on-site hazards. Evaluate air monitoring data to make field decisions regarding safety and health and dust control methods. As feasible, measures will be taken to eliminate or minimize on-site hazards and harmful airborne exposures; and
5. Maintaining records of safety inspections and problems encountered, corrective action taken, and documentation of any chemical exposures or physical injuries. The Health and Safety Officer will document these conditions in a bound notebook and maintain a copy of this log on-site. All entries will be dated and initialed.

Any person who observes safety concerns or potential hazards that have not been addressed in the daily safety meetings for exclusion zone work or weekly safety meetings for all other work should immediately report observations/concerns to the Site Health and Safety Officer, Owner's Representative, and other appropriate key personnel.

2.0 HAZARD ASSESSMENT

A job hazard assessment will be prepared by the contractor prior to beginning of work in order to identify potential hazards and before beginning each new work task. The contractor is responsible for reviewing and revising the job hazard analysis during the project. The Job Hazard Analysis (JHA) is included as Table 1. Walk-through safety surveys shall be performed daily by the Site Health and Safety Officer, or in his absence, the alternate safety representative.

2.1 Hazardous Materials

The contractor is responsible for training site workers regarding identifying and proper handling procedures of hazardous chemicals used on-site. This will include an employee orientation on a Right-to-Know Hazard Communication Program prior to the beginning and throughout the duration of the work. Different trade contractors working at the site will be required to provide hazard information to others so all workers are aware of the hazards of materials being used. The Site Health and Safety Officer will review each subcontractors Hazard Communication Program for completeness and will maintain Safety Data Sheets (SDS) for all hazardous materials on file.

The contractor and each of their subcontractors will:

- Keep an inventory of hazardous materials used.
- Provide SDS sheets to the Site Health and Safety Officer who will maintain them in his file.
- All containers storing hazardous materials will be labeled with the name of the material, proper PPE wear, first aid treatment, special information such as flammability, toxicity, carcinogenic etc.

- All incoming materials will be labeled immediately.

Safety data sheets for materials to be used or stored on-site are included in Appendix C.

2.2 Task Specific Hazards and Standard Operating Procedures

2.2.1 Operation of Heavy Equipment

The Owner will adhere to the specific guidelines for operating heavy equipment as outlined by OSHA in 29 CFR 1926.602. The operation of heavy construction equipment in New York is also covered by New York State Industrial Code Rule #23-9. The use of heavy equipment such as backhoes, front-end loaders, dump trucks and other heavy equipment represent potentially serious construction hazards. Whenever such equipment is used, personnel in the vicinity should be limited to those necessary to complete the assigned duties. The following present some general safety guidelines for working around heavy equipment:

- All personnel must avoid standing within the turning radius of the equipment or below any suspended load.
- When water is used, care must be taken to avoid creating muddy or slippery conditions.
- Back-up alarms are required for equipment with limited visibility when backing up.
- Personnel should never turn their back to operating machinery.
- Personnel should never wear loose clothing, jewelry, hair or other personal items around rotating equipment or other equipment that could catch or ensnare those materials.
- Personnel should always stand far enough away from operating machinery to prevent accidental contact which may result from mechanical or human error.

2.2.2 Excavation of Fill Material and Trenching Activities

The Occupational Safety and Health Administration (OSHA) 29 CFR 1926.651, February 20, 1990, established construction industry standards relating to excavation work. Additional requirements that are needed for excavation in New York State are covered by Protection in Construction, Demolition and Excavation Operations Code Rule #23-4 Excavation Operations. These standards include shoring and cutback requirements, equipment specifications, entry requirements, etc. To ensure proper excavation safety measures and avoid exposure to site-specific contaminants and to ensure acceptable atmospheric conditions, the following additional requirements apply:

- Trenches and excavation greater than five feet deep will be protected with a system such as sheeting or shoring. Ladders will be placed in excavations greater than 4 feet deep.

- Open excavations will be backfilled as soon as possible. While excavations remain open, appropriate warnings will be posted, and barricades will be erected to protect pedestrian and worker safety. Where possible, excavation sidewalls will be cut at a gradual slope relative to each cutback to maximize egress and access. Shoring will be used if needed. Workers will not enter excavations unless absolutely required.

- Air quality should be tested before employees enter excavations to determine if a hazardous atmosphere exists. Tests shall be conducted as often as necessary as determined by the Site Health and Safety Officer to ensure atmospheric quality. This includes tests for organic vapors, flammable gas, oxygen deficiency, and toxic gases i.e., CO. When the HSO identifies hazardous atmospheres, the work has to be stopped and situation evaluated.

- If an employee is exposed to falling 6 feet or more from an unprotected side or edge, the contractor will utilize a guardrail system, safety net system, or personal fall arrest system to protect workers. Construction safety fence will be erected around excavations to prevent workers and the public from fall hazards.

- Where the stability of adjoining buildings, walls, sidewalks, or other structures is endangered by excavation operations, support systems such as shoring, bracing, or underpinning will be provided to ensure the stability of such structures for the protection of employees and the public. Excavation below the level of the base or footing of any foundation or retaining wall that could be reasonably expected to pose a hazard to employees or the public will not be permitted except when a support system, such as underpinning, is installed.

- Soil will be classified each day by the competent person (Superintendent) as Type A, B or C soil in accordance with OSHA 29 CFR 1926 Subpart P using one manual and one visual analysis. The competent person will have training in, and be knowledgeable about, soil classification, the use of protective systems, and the requirements of Subpart P. Soil classification will be used to determine proper sloping/shoring/benching required.

2.3 Physical Hazards

All electrical power must be connected to a ground fault circuit interrupter. All equipment that will enter excavations/ground openings or used immediately adjacent to open excavations/ground openings must be suitable and approved (i.e., intrinsically safe) for use in potentially explosive environments. Applicable OSHA 29 CFR 1926 Subpart K standards for use of electricity shall apply.

Work in which a worker could fall will be performed using appropriate ladders and/or fall protection (e.g., body harness and lifeline).

No employee is permitted to ride on any piece of construction equipment unless he/she is positioned in the cab of the machine. Additionally, no worker will be permitted to ride on any dump truck or trailer unless he/she is inside the cab of the vehicle.

Noise exposure can be affected by many factors including the number and types of noise sources (continuous versus intermittent or impact), the proximity to noise and the presence of intensifying structures such as walls or buildings which cause noise to bounce back or echo. The most significant factor affecting noise exposure is distance from the source. The operation of a drill rig, backhoe, or other mechanical equipment can be a source of significant noise exposure. To reduce the exposure to such noise, personnel working in areas of excessive noise must use hearing protectors (ear plugs or earmuffs) in accordance with their respective hearing conversation programs. Hearing protection must be worn if noise levels exceed 80 decibels (Dba) or 140 db peak sound level. In a situation where data from sound level meters or noise dosimeters is unavailable, if it is necessary to raise the voice above a normal conversational level to communicate with those within 3 to 5 feet, hearing protection should be worn.

When the temperature is above 70º F and personnel are wearing protective clothing, a heat stress-monitoring program will be implemented if necessary. Employees shall be allowed break periods and beverages, as necessary. All personnel working on the site will be familiar with the symptoms, signs, and emergency care associated with heat stress, heat exhaustion and heat stroke.

Cold stress is a result of cold, wetness, and wind and is generally a concern at air temperatures below 50° F. A worker's susceptibility to cold stress can vary according to his/her physical fitness, degree of acclimatization to cold weather, age, and diet. Employees shall have access to break periods, shelter, and beverages, as necessary. All personnel routinely working on-site (including the support zone) shall be familiar with the symptoms, signs, and emergency care associated with cold stress, hypothermia, and frostbite.

Operations creating the potential for fire hazards shall be conducted in a manner that minimizes risk. Non-sparking tools and fire extinguishers shall be used or available as directed by the Site Health and Safety Officer when potentially explosive atmospheres may be encountered. Ignition sources shall be removed from all work areas. When necessary, explosion-proof instruments and/or bonding and grounding will be used to prevent fire or explosion when the HSO directs their use.

Overhead and underground utilities shall be identified and/or inspected and appropriate safety precautions taken before conducting operations involving potential contact or interference. In accordance with New York State Code Rule 753, the Superintendent will locate and verify underground utilities by contacting the New York/Long Island One Call Center. If necessary a private markout will be obtained prior to excavation activities. The One-Call Center will be notified at least two but not more than ten days prior to the beginning of excavation. The New York/Long Island One Call Center can be reached at 1-800-272-4480.

2.4 Biological Hazards

The biological hazards that personnel may encounter are animal bites or stings and contact with plants. Animal bites or stings are usually nuisances (localized swelling, itching and minor pain) that can be handled by first aid treatments. The bites of certain snakes and spiders contain sufficient poison to warrant medical attention. Diseases that can be transmitted by animal bites include Lyme disease or Rocky Mountain spotted fever (tick), rabies, malaria, and equine encephalitis (mosquito). The biggest hazard and most common cause of fatalities from animal bites, particularly bees, wasps, and spiders, is a sensitivity reaction. Anaphylactic shock due to stings can lead to severe reactions to the circulatory, respiratory, and central nervous system, and it can also cause death.

2.4.1 Plants

Toxic effects from plants are generally due to ingestion of nuts, fruits, or leaves. Certain plants, including poison ivy, poison oak, and poison sumac produce adverse effects from direct contact. The usual effect is dermatitis, which is an inflammation of the skin. The protective clothing and decontamination procedures used for chemicals also reduce the exposure risk from the plant toxins. Cleaning the skin thoroughly with soap and water after contact will reduce the risk. The site will be surveyed in advance to attempt to identify and flag these biological hazards and notify site workers of their presence.

2.4.2 Insects

Ticks

The presence of ticks is of particular concern during the warmer months of the year. Personnel must maintain personal hygiene and frequently check for ticks on their clothing.

Most of the work at the site will be done in non-vegetated areas, but when work is done adjacent to or in areas of dense vegetation, site workers must pay particular attention to ticks. Tick bites can cause Lyme disease. The following guidelines will help minimize the tick hazard:

- Wear tightly woven light colored work pants and long sleeve shirts with tight fitting collars and sleeves;
- Pull socks over pants and wear blousing bands or gators to keep pants inside the socks;
- Spray tick repellent on pants from knees to ankles or higher, depending on the site conditions;
- Periodically check for ticks on your clothing and clothing worn by other workers; and
- Remove ticks from clothing and skin as soon as they are noticed. Refer to instructions in first aid kit.

West Nile Virus

Symptoms of viral encephalitis include:

- High fever
- Headache and body aches
- Skin rash
- Swollen lymph glands
- Neck stiffness
- Disorientation
- Convulsions

West Nile Virus has an incubation period of 3-15 days following a bite by an infected mosquito.

To help protect yourself from mosquito bites:

- Wear long sleeves and pants in mosquito-infested areas.
- Use mosquito repellant containing DEET (follow label instructions carefully)
- Limit outdoor activities at dawn, dusk, and early evening when mosquitoes are most active.
- Eliminate standing water at the site, as mosquitoes will lay eggs there.

3.0 CONTAMINATED MATERIALS

Findings of the preliminary investigation performed in 2019 by AEAS indicated one soil sample location contained the metal lead in a concentration exceeding NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Residential Soil Cleanup Objectives (RSCOs). A number of additional metals were detected in the samples in concentrations falling below UUSCOs. There were no VOCs, SVOCs, Pesticides or PCBs detected in soil samples in concentrations exceeding UUSCOs.

Contaminated material associated with historic site use may be encountered during site redevelopment. The owner will implement administrative and engineering controls as necessary to mitigate exposure of workers and the public to hazards associated with of excavation of materials on-site.

3.1 Contaminated Material Handling Procedures

Material will be disposed pursuant to all Federal, State (including 6 NYCRR Part 360) and local regulations.

Contaminated materials excavated on-site may be stockpiled prior to disposal. All stockpiled materials shall be placed on 20-mil (or equivalent) plastic sheeting/ground cloth. Each stockpile shall be covered by 10-mil. (minimum) plastic sheeting to protect against contaminant leaching or runoff to groundwater or stormwater. The sheeting will be properly secured (weighted) and seams sealed to prevent tearing or removal by weather, and the ground surface surrounding the stockpile shall be graded to allow rainfall runoff to travel away from the stockpiled material.

Transport of materials will be performed by licensed haulers in accordance with applicable Federal, State, and local regulations including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Loaded vehicles leaving the work site will be properly lined, covered, manifested, and placarded in accordance with applicable Federal, State, local and NYSDOT requirements. Trucks will not be overloaded. Loads will be balanced and fully contained within the vehicle. Soil will be covered with tarps prior to trucks exiting the site. Workers will be instructed to stay away from the area during loading of trucks. Prior to exiting the site excess soil will be removed from truck exterior and wheels. All loads leaving the site will be tracked on manifests signed by a representative of the generator.

All materials leaving the site will be tracked with manifests. All fully executed manifests signed by the receiving facility will be provided to the NYSDEC Project Manager.

4.0 AIR MONITORING

Dust may be generated from vehicle traffic, excavation/grading and construction activities which may produce particulate concentrations above daily background. Dust monitoring will be conducted in accordance with the Community Air Monitoring Plan (CAMP) prepared for the project. In accordance with the CAMP, dust monitoring will be conducted continuously during ground intrusive activities (e.g., grading, excavation) using both air monitoring equipment and visual observations. If the HSO, through visual or Dust Trak monitoring, determines that excessive dust is being generated, corrective actions will be taken. Possible dust suppression techniques to be utilized on-site include applying water to the work area and if this is not effective, approved resin-in-water emulsion.

Details of air monitoring to be performed including procedures and action levels are discussed in the CAMP prepared for the site and submitted under a separate cover.

5.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. The route to the nearest hospital is shown on Figure 2. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

5.1 Emergency Equipment On-Site

Cellular Telephones:	Site personnel
Two-way Radios:	Site personnel, where necessary
Emergency Alarms:	On-site vehicle horns*
First Aid Kits:	On-site, in office trailers
Fire Extinguisher	On-site, in office trailers or on equipment

Horns: Air horn will be supplied to personnel at the discretion of the Site Health and Safety Officer. One long blast evacuates the site, two blasts will be a warning.

5.2 Emergency Telephone Numbers and Hospital Information

Police Department (62nd Precinct)	(718) 236-2611 or 911
New York City Fire Department	718-847-6600
Health Department: New York City	212-447-8200
National Response Center	800-424-8802
US EPA Region II Response Center	732-548-8730
NYS Spill Response	800-457-7362
AB Environmental	800-226-4570
Poison Control	212-340-4494
NYCDEP	718-595-7000 or 311
NYSDEC	718-482-4996
Mount Sinai Hospital Brooklyn 3201 Kings Highway Brooklyn, NY 11234	718-252-3000

A copy of this information along with the local hospital route shall be posted and readily available at the project Site in the office trailer/Site Health and Safety Officer's vehicle. Not all the listed agencies must be notified for each situation. The route to the local hospital is shown on Figure 2.

5.3 Personnel Responsibilities During an Emergency

The Superintendent is primarily responsible for responding to and correcting emergency situations with on-site assistance from the HSO. However, in the absence of the Superintendent, the HSO may act as the Superintendent's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel, total evacuation and securing of the site, or updating or downgrading the level of protective clothing and respiratory protection.

- Ensure that appropriate federal, state and local agencies are informed and that emergency response plans are coordinated (in the event of fire or explosion, the local fire department should be summoned immediately, if toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation).

- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel.

- Determine the cause of the incident and make recommendations to prevent reoccurrence.

- Ensure that all required reports have been prepared.

5.4 Medical Emergencies

Any person who becomes ill or injured in the work area must be decontaminated to the maximum extent possible if exposed to contamination. If the injury or illness is minor, full decontamination should be completed and first aid administered prior to transport. First aid should be administered while awaiting an ambulance or paramedics. Any person transporting an injured/exposed person to a clinic or hospital for treatment should take the directions to the hospital and information on the chemical(s) to which they may have been exposed. An Accident and Exposure Report shall be completed for all site accidents. An accident/exposure report is included in Appendix E.

5.5 Fire or Explosion

In the event of a fire or explosion, the local fire department should be summoned immediately by dialing 911. The Superintendent or his designated alternate will advise the fire commander of the location, nature, and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- Use fire fighting equipment available on-site; or
- Remove or isolate flammable or other hazardous materials that may contribute to the fire.

5.6 Evacuation Routes

Evacuation routes established by work area locations for this site will be highlighted on a site map and periodically reviewed during the daily safety meetings. As the work areas change, the evacuation route and map will be altered accordingly, and the new route will be reviewed during the daily safety meetings. A site plan with idealized evacuation routes from the work area is shown in Figure 3. Under extreme emergency conditions, evacuation should be conducted immediately, without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site personnel shall follow these instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, site personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone in a safe place.
- The Superintendent will conduct a head count to ensure that all personnel have been evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

5.7 Spill Control Procedures

The following procedures will be utilized to prevent or contain spills:

- All hazardous material will be stored in appropriate containers.
- Tops/lids will be placed back on containers after use.
- Containers of hazardous materials must be stored away from moving equipment and in safe areas.

The containment measure utilized will be appropriate to the materials identified and should be installed in the area or located nearby. Equipment on-site shall be sufficient to handle any spills. The following spill containment equipment will be available on-site:

- Absorbent materials (e.g., pads, booms, powders);
- Salvage containers (e.g., over-pack drums);
- Bermed, lined pads;
- Inflatable containment (e.g., "kiddie" pools, bladders); and
- Associated equipment such as pumps, hoses, shovels, hoists.

Spill containment equipment will be regularly inspected by the HSO. Spill containment equipment will be replaced immediately after use.

In the event of a leak or release, site personnel will:

- Inform their supervisor immediately
- Locate the source of the spillage and stop the flow if it can be done safely
- Begin containment and recovery of the spilled materials
- Contact NYSDEC Spill Hotline immediately, if necessary
- Contact the NYSDEC Project Manager

6.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) shall be selected in accordance with OSHA 29 CFR 1910.120 (g) and 1910.132. Protective equipment shall be NIOSH-approved, head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133, foot protection shall conform to 1910.136 and ear protection shall conform to 1926.101.

6.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with hazardous concentrations of harmful chemicals. Site work is anticipated to be conducted in Level D. Level D PPE consists of:

- Standard work uniform (coveralls, or Tyvek as needed);
- Steel toe and steel shank work boots (disposable booties if needed);
- Hard hat;
- Reflective safety vests while working in the street;
- Gloves as needed;
- Safety glasses.

Level D PPE is expected to be sufficient for all site work to be performed. If an upgrade in PPE is necessary and respirator use is required a respiratory protection program will be developed and implemented.

7.0 SITE CONTROL AND STANDARD OPERATING PROCEDURES

Site security will be provided continuously during working and non-working hours. Signs will be installed identifying the site and each work area.

7.1 Work Areas

The primary purpose for site controls is to establish the perimeter of a hazardous area, to reduce migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. The HSO shall designate an exclusion zone, a decontamination zone (contamination reduction zone) and a support zone. It should be noted that the contamination reduction zone may float (move around the site) depending on the tasks being performed on any given day. The support zone will be located in the office trailer. The HSO will outline these locations during daily site safety meetings when changes occur or during weekly meetings for all other work. All information shall be recorded by the HSO on the daily site log.

Tasks requiring the OSHA 40-Hour Hazardous Waste Operations and Emergency Response Operations training are carried out in areas defined as the exclusion zone. Protective equipment shall be removed within the decontamination zone, which will generally be located at the gated site entrance. Disposable protective equipment shall be stored in receptacles staged in the decontamination zone, and non-disposable equipment will be decontaminated. All personnel and equipment will exit the exclusion zone through the decontamination zone.

The support zone will be used for the office trailers, for vehicle parking, daily safety meetings, and supply storage. Eating and drinking are permitted only in the support zone. Smoking is prohibited on the site. An eyewash and fire extinguisher will be kept on-site in the HSO's vehicle.

7.2 General Field Safety and Standard Operating Procedures

The control of hazards for all site areas will be accomplished by limiting entrance to exclusion zones to essential personnel, and by implementing the following:

- Non-essential (as judged by the HSO) personnel and unauthorized persons will not enter the exclusion or the decontamination zone.
- Before entering the exclusion or decontamination zones, all personnel must be familiar with the emergency response procedures, site safety locations, first aid and communication equipment, and the locations of the map to the hospital and the list of emergency telephone numbers.
- The buddy system will be always used by field personnel in the work area. No one is to perform work in the work area alone. When in Level B, always maintain visual contact, and maintain radio contact with the work area.
- Avoid contact with contaminated and potentially contaminated surfaces. Walk around (not through) puddle and discolored surfaces. Do not kneel on the ground or set equipment on the ground. Protect equipment from contamination.

- All personnel exiting the work area must exercise the decontamination procedures described in Section 8.3 of this HASP.
- Eating and drinking is permitted only in designated areas and not at all in the exclusion zone.
- Each worker must be supplied with and maintain his/her own personal protective equipment.
- All personnel entering the exclusion zone shall have the required minimum 40-hour off-site HAZWOPER training and 3 days of documented actual field experience under the direct supervision of a trained experienced supervisor.

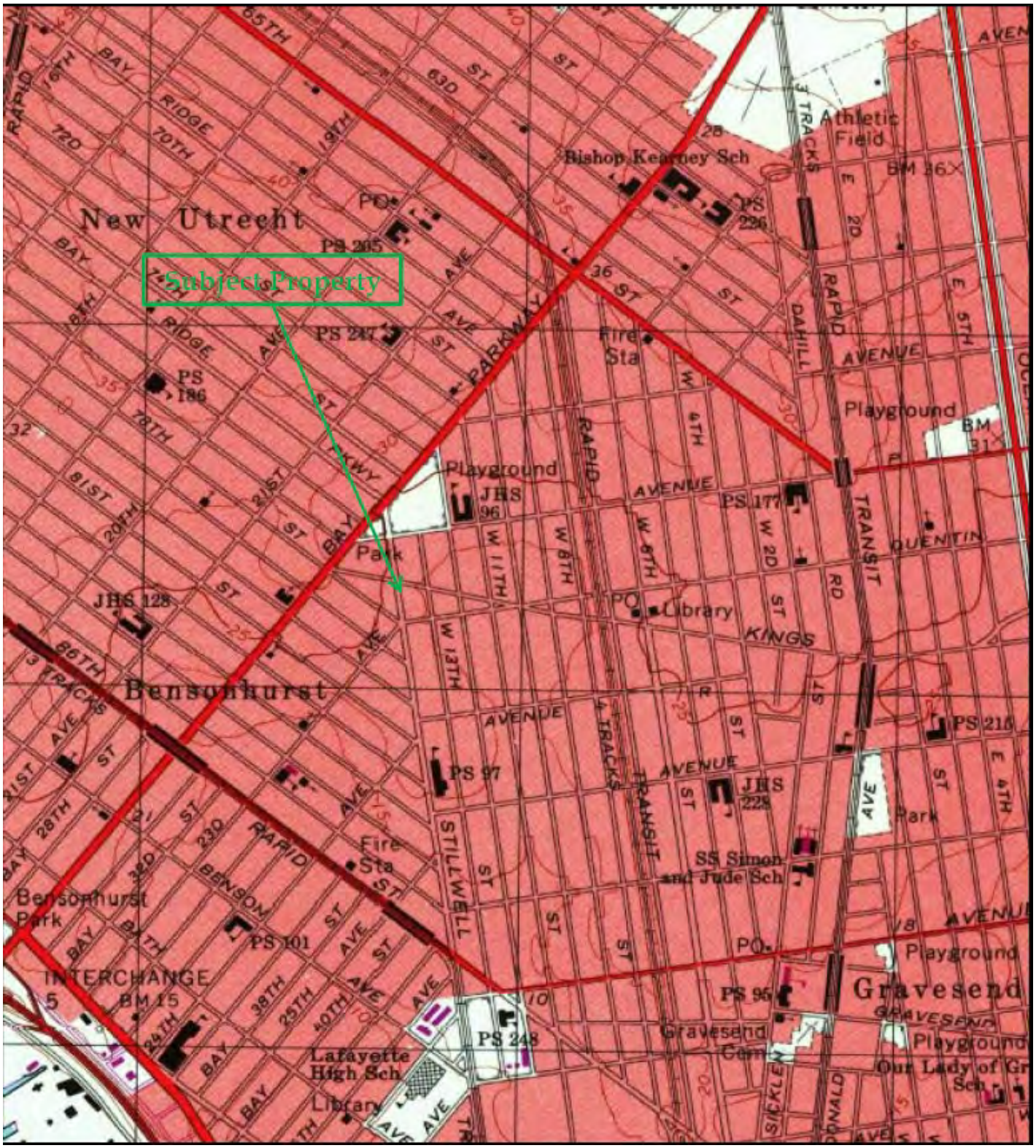
7.3 Decontamination Procedures

Project work zones will be subdivided into exclusion zones and decontamination areas if warranted by site conditions. All equipment and personal protective equipment (PPE) in the exclusion zone must be decontaminated or properly discarded upon exit. All personnel must enter and exit the exclusion zone through the decontamination area. Because of the nature of the site work, the exclusion and decontamination zones may change. Plastic bags containing personal protective clothing and equipment will be placed in designated trash receptacles.

All boots and other potentially contaminated garments will be cleaned in washtubs with detergent/water solution and rinsed with water. Boots exposed to significant levels of contamination (e.g., oily soils) must remain at the project Site after decontamination unless disposable boot covers are used. The wash water, rinse water, and residues will be collected and properly stored until sampling results are received and the final method of disposal can be determined unless discharge is allowed on site by the Engineer. Disposable PPE, including spent respirator cartridges and canisters, will be properly bagged, and disposed of as municipal solid waste. All contaminated boots, clothing, and equipment (e.g., leather boots and equipment carrying straps) that cannot be decontaminated will be disposed with the disposable garments or left on-site in the decontamination trailer.

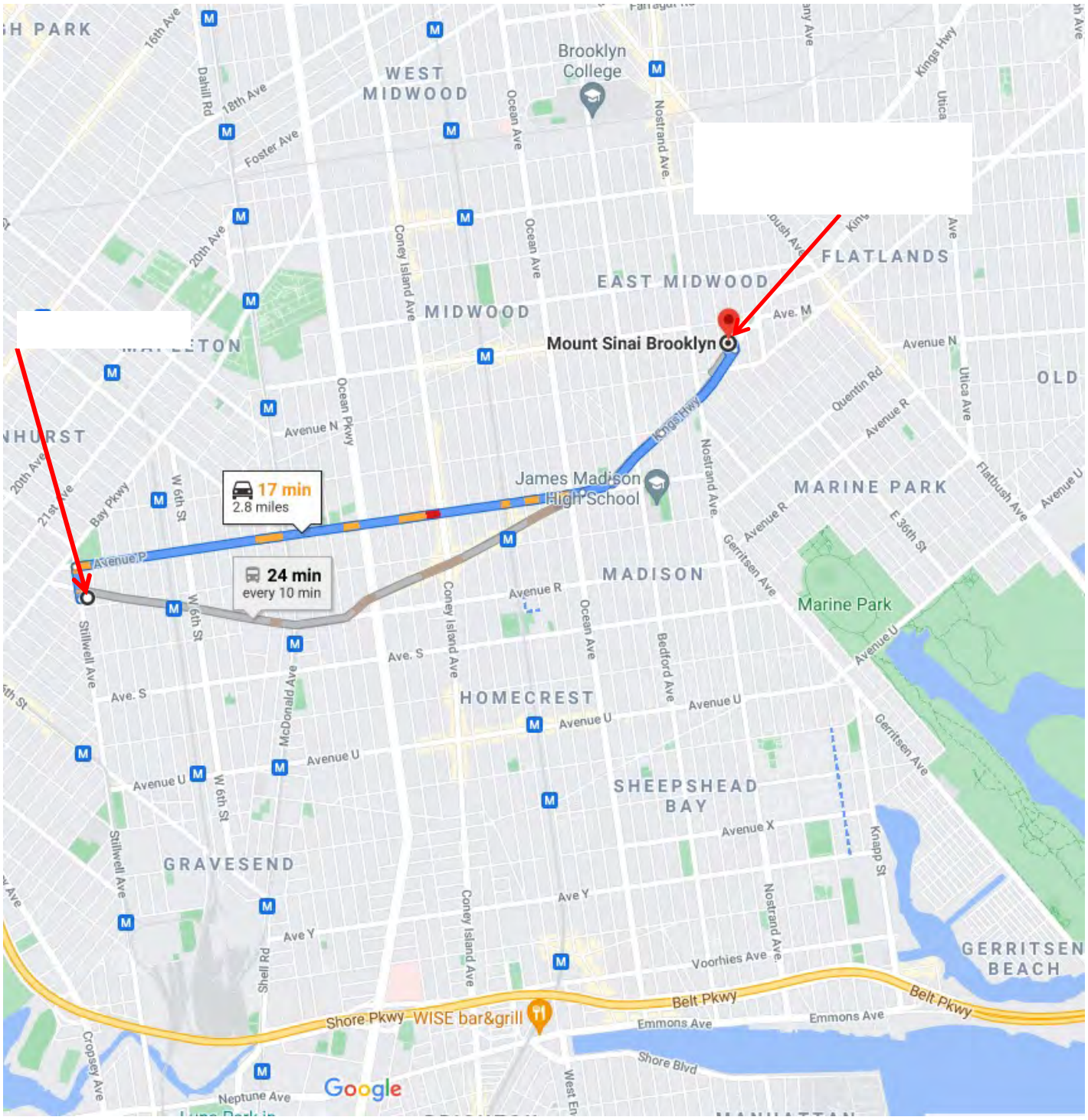
Heavy equipment will be decontaminated on a pad constructed of concrete, gravel or plastic sheeting that will allow water and residues to be collected in a trench. The decontamination water and residues will be drummed, sealed, and properly stored on-site to await proper disposal unless onsite discharge is allowed by the Engineer.

A steam cleaner/pressure washer will be utilized to decontaminate heavy equipment and vehicles on the decontamination pad. Site personnel will conduct equipment decontamination in Level D PPE.



USGS Topographic Map, 7.5 Minute Series, Coney Island, NY Quadrangle

1665 Stillwell Avenue **Brooklyn, NY 11223** **NYSDEC BCP Site No. C224307**	



Source Google Maps

1665 Stillwell Avenue **Brooklyn, NY 11223** **NYSDEC BCP Site No. C224307**	Health & Safety Plan AES Project No. 0880	**Figure 2** **Route to Hospital** **American Environmental Solutions, Inc.**



1665 Stillwell Avenue
Brooklyn, NY 11223
NYSDEC BCP Site No. C224307

TABLE 1
JOB HAZARD ANALYSIS

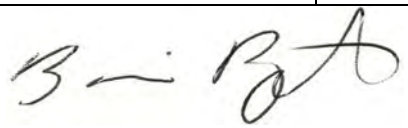
JOB HAZARD ANALYSIS
1665 STILLWELL AVENUE, BROOKLYN NY
NYSDEC SITE NO. C224307

Job Hazard Analysis (JHA)	Analyst Brian Pendergast	Job Title Environmental Project Manager	
Tasks/Procedures	**Hazards**	**Hazard Control Measures**	**PPE required**
Work area preparation/debris removal	Bodily Injury	Use proper lifting techniques such as test the load before lifting, keep the load close to the body with feet flat & stable Use good housekeeping practices – keep work areas clean and net Remove flammable materials from the work area & use approved containers for storage/handling of flammable or combustible materials Inspect equipment used for debris removal and area preparation prior to each use Keep walking areas clear and create walkways	Work gloves Hard hats work boots safety glasses safety vest Leg guards
Power Tool Use	Hearing Loss Eye Injury Cuts/Lacerations Bodily Injury Electrocution	Use proper lockout/tagout procedure Train personnel on use of power tools Select the right tool for the job Ensure outlets are equipped with GFCIs Operate power tools in accordance with manufacturers specification Utilize guards and safety switches when using power tools Maintain power tools in good working condition Ensure cords are in good condition and have three prong plugs before plugging in Do not use electric tools in wet areas	Eye protection – safety glasses Ear protection Gloves, Hard hats, work boots, safety glasses, safety vest Leg guards
Working with flammable materials	Fire or Explosion	Remove flammable materials from the work area and store flammable/combustible materials in approved containers ABC fire extinguishers will be available near the work area and workers will be trained to use them Fire extinguishers will be inspected monthly and maintained every 6 months	Work gloves Hard hats work boots safety glasses safety vest Leg guards

Working near/around heavy equipment	Bodily Injury Utility interference	PPE-Gloves, Hard hats, work boots, safety glasses, safety vest Do not place hands, feet or body parts beneath heavy equipment Inspect heavy equipment before each use to ensure it is in proper working order Maintain eye contact with equipment operator Only qualified, trained operators should operate heavy equipment Ensure backup alarms are working properly Use spotters when necessary Follow manufacturers' specifications/recommendations for use of heavy equipment Ensure a stable working surface Obtain Code 53 Utility Mark-out Hand excavate around utilities	Work gloves Hard hats work boots safety glasses safety vest Leg guards
Excavation/Grading of Contaminated Materials	Trench Collapse	Competent person supervising Follow approved sheeting designs Use proper sheeting techniques Monitor excavation frequently and after rain events Do not pile spoils or work materials/equipment near edge of trench Train workers to be aware and not to stand near edge of trench	Work gloves Hard hats work boots safety glasses safety vest respirator if necessary based on atmospheric testing
	Utility Damages	Obtain Code 53 Utility Mark-out Hand excavate around utilities Maintain and refresh utility markouts regularly	
	Fall Hazards	Keep work area free of debris Use safety fencing around trenches/excavations Clean, sand or salt slippery surfaces Keep trench ladders properly spaced Keep trench ladders tied off	

	Worker exposure to chemical hazards/contaminants (lead) contained in soil	Provide facilities for hand washing and ensure employees wash up after working around contaminated materials Use dust suppression techniques such as wetting the work area Train workers to be aware of possible chemical hazards/contaminants and to be aware of petroleum odor, chemical odor or rotten egg odor in soil during excavation Conduct air monitoring to determine if concentrations are acceptable No eating or drinking permitted in the work area	
	Atmospheric Hazards and exposure to lead dust	Use proper PPE including respirators if necessary Conduct personal air monitoring to determine worker exposure Perform particulate monitoring to ensure levels are within acceptable ranges Utilize blowers & mechanical ventilation Train workers to be aware of atmospheric hazards and to be aware of petroleum odor, chemical odor or rotten egg odor in soil during excavation Workers should be trained/familiarized with familiar with site contaminants and their hazards Use dust suppression techniques such as wetting the work area No eating or drinking permitted in the work area	
Soil Sampling	Bodily injury from drilling equipment/rig	Use proper PPE work boots, gloves, safety vest, safety glasses, hard hat Obtain code 53 mark out to avoid contact with underground utilities Survey the area to ensure there will be no contact with overhead power lines Only qualified/trained operators should operate a drill rig Inspect rig before use to be sure it is in good working condition Truck mounted drill rig should be equipped with backup alarms Operate the rig in accordance with manufacturers' specifications	Work gloves Hard hats work boots safety glasses safety vest respirator if necessary based on atmospheric testing
	Bodily Injury from Hand Tools (hand auger, stainless steel trowel, shovel)	Use proper PPE including gloves, work boots, safety vest, safety glasses, hard hat Train workers to properly use tools Use proper techniques to avoid back strain Clean/decontaminate hand tools after each use	

	Worker exposure to chemical hazards/contaminants contained in soil	Use proper PPE including gloves, safety glasses, long sleeves and long pants, tyvek suits if necessary Provide facilities for hand washing and ensure employees wash up after working around contaminated materials Control dust using water Conduct air monitoring to determine if concentrations are acceptable	
	Atmospheric Hazards	USE proper PPE including safety vests, work boots, hard hats, gloves, safety glasses and dust masks if necessary Conduct air monitoring to determine if concentrations are acceptable Utilize blowers & mechanical ventilation Train workers to be aware of atmospheric hazards and to be aware of petroleum odor, chemical odor or rotten egg odor in soil during sampling events	
Loading soil/material into trucks for disposal	Bodily injury caused by getting struck by equipment	USE proper PPE including safety vests, work boots, hard hats, gloves, safety glasses Only qualified/trained drivers and heavy equipment operators Trucks and heavy equipment/loaders should be equipped with backup alarms Use spotters and flagmen to direct trucks and heavy equipment when necessary Workers should be instructed not to ride or climb on heavy equipments or trucks Do not place hands, feet or body parts beneath heavy equipment Do not walk or work under loading operations Inspect heavy equipment before each use to ensure it is in proper working order Maintain eye contact with equipment operator Follow manufacturers' specifications/recommendations for use of heavy equipment Ensure a stable working surface Workers should stay clear of loading activities, only essential personnel in area	Work gloves Hard hats work boots safety glasses safety vest Dust masks or respirator if necessary based on atmospheric testing

	Worker exposure to chemical hazards/contaminants contained in soil	Use proper PPE, respirators if necessary Control dust using water Train workers to be aware of possible chemical hazards/contaminants and to be aware of petroleum odor, chemical odor or rotten egg odor in soil during loading Conduct air monitoring to determine if concentrations are acceptable Trucks should be equipped with tarps to cover soil to prevent a release	
	Atmospheric Hazards	Perform air monitoring Utilize blowers & mechanical ventilation Train workers to be aware of atmospheric hazards odor and to be aware of petroleum odor, chemical odor or rotten egg odor in soil during loading activities	
Analyst Signature: 			**Date: August 2, 2021**

APPENDIX A
HEALTH & SAFETY PLAN ACKNOWLEDGEMENT FORM
SIGN IN/SIGN OUT LOG

SITE SAFETY PLAN ACKNOWLEDGEMENT FORM

I have been informed and understand the procedures set forth in the Health and Safety Plan and Amendment for the _____ project:

Printed Name	**Signature**	**Company**	**Date**

EMPLOYEES' DAILY SIGN-IN LOG

DATE.....

NAME OF CONTRACTOR/SUBCONTRACTOR	ADDRESS	PHONE No.
CONTRACT REG. No.	PROJECT NAME	PROJECT LOCATION

EMPLOYEE'S NAME (PLEASE PRINT)	EMPLOYEE'S SOCIAL SECURITY No.	TIME IN	TRADE/CLASSIFICATION (PLEASE PRINT)	TIME OUT	EMPLOYEE'S SIGNATURE

I hereby certify that the above information is true and correct and represents all persons employed by my firm on the above project on this date.

SIGNATURE (Contractor/Representative) NAME (Print) TITLE DATE 19___

APPENDIX B
SITE SAFETY PLAN AMENDMENTS

AMERICAN ENVIRONMENTAL SOLUTIONS, INC.
SITE SAFETY PLAN AMENDMENTS

SITE SAFETY PLAN AMENDMENT # _____: _____

SITE NAME: _____

REASON FOR AMENDMENT: _____

_____

_____

ALTERNATE PROCEDURES: _____

_____

_____

REQUIRED CHANGES IN PPE: _____

_____

_____

_____ _____
HEALTH & SAFETY OFFICER DATE

_____ _____
CONTRACTOR REPRESENTATIVE DATE

APPENDIX C
SAFETY DATA SHEETS

1665 Stillwell Avenue, Brooklyn, NY

PROJECT SPECIFIC LIST OF CHEMICALS

Gasoline
Diesel Fuel
Kidde ABC Dry Chemical Fire Extinguisher Chevron
Hydraulic Oil AW
Chevron Extended Life Coolant Anti-freeze
Chevron URSA Suplus EC 15W-40
Krylon Water Based Inverted Marking Paint

Safety Data Sheet

Material Name: Gasoline All Grades

SDS No. 9950
EU/CLP GHS

Synonyms: Hess Conventional (Oxygenated and Non-oxygenated) Gasoline; Reformulated Gasoline (RFG); Reformulated Gasoline Blendstock for Oxygenate Blending (RBOB); Unleaded Motor or Automotive Gasoline

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquid - Category 2
Skin Corrosion/Irritation - Category 2
Germ Cell Mutagenicity - Category 1B
Carcinogenicity - Category 1B
Toxic to Reproduction - Category 1A
Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)
Specific Target Organ Toxicity (Repeat Exposure) - Category 1 (liver, kidneys, bladder, blood, bone marrow, nervous system)
Aspiration Hazard - Category 1
Hazardous to the Aquatic Environment – Acute Hazard - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statements

Highly flammable liquid and vapour.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to organs (liver, kidneys, bladder, blood, bone marrow, nervous system) through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist/vapours/spray.
Use only outdoors or in well-ventilated area.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.

Response

In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held fire extinguisher.
IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Get medical advice/attention if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

Storage

Store in a well-ventilated place.
Keep cool. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
86290-81-5	Gasoline, motor fuel	100
108-88-3	Toluene	1-25
106-97-8	Butane	<10
1330-20-7	Xylenes (o-, m-, p- isomers)	1-15
95-63-6	Benzene, 1,2,4-trimethyl-	<6
64-17-5	Ethyl alcohol	0-10
100-41-4	Ethylbenzene	<3
71-43-2	Benzene	0.1-4.9

110-54-3	Hexane	0.5-4

A complex blend of petroleum-derived normal and branched-chain alkane, cycloalkane, alkene, and aromatic hydrocarbons. May contain antioxidant and multifunctional additives. Non-oxygenated Conventional Gasoline and RBOB do not have oxygenates (Ethanol or MTBE and/or TAME). Oxygenated Conventional and Reformulated Gasoline will have oxygenates for octane enhancement or as legally required.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Firefighting foam suitable for polar solvents is recommended for fuel with greater than 10% oxygenate concentration.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

USE ONLY AS A MOTOR FUEL.
DO NOT SIPHON BY MOUTH

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Incompatibilities

Keep away from strong oxidizers.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Gasoline, motor fuel (289-220-8)

ACGIH:	500 ppm STEL
	300 ppm TWA
Netherlands:	480 mg/m3 STEL
	240 mg/m3 TWA
Portugal:	300 ppm TWA [VLE-MP]
Spain:	300 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)

Toluene (203-625-9)

EU:	50 ppm TWA; 192 mg/m3 TWA
	100 ppm STEL; 384 mg/m3 STEL
	Possibility of significant uptake through the skin
ACGIH:	20 ppm TWA
Austria:	100 ppm STEL [KZW] (4 X 15 min); 380 mg/m3 STEL [KZW] (4 X 15 min)
	50 ppm TWA [TMW]; 190 mg/m3 TWA [TMW]
	skin notation
Belgium:	100 ppm STEL; 384 mg/m3 STEL
	22 ppm TWA; 77 mg/m3 TWA
	Skin
Denmark:	25 ppm TWA; 94 mg/m3 TWA
	Potential for cutaneous absorption
Finland:	100 ppm STEL; 380 mg/m3 STEL
	25 ppm TWA; 81 mg/m3 TWA
	Potential for cutaneous absorption
France:	100 ppm STEL [VLCT] (restrictive limit); 384 mg/m3 STEL [VLCT] (restrictive limit)
	50 ppm TWA [VME] (restrictive limit); 192 mg/m3 TWA [VME] (restrictive limit)
Germany:	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 4); 190 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 4)
	1.0 mg/L Medium: whole blood Time: end of shift Parameter: Toluene; 3.0 mg/L Medium: urine Time: end of several shifts Parameter: o-Cresol (for long-term exposures)

	50 ppm TWA MAK; 190 mg/m3 TWA MAK
	200 ppm Peak; 760 mg/m3 Peak
Greece:	100 ppm STEL; 384 mg/m3 STEL
	50 ppm TWA; 192 mg/m3 TWA
Ireland:	100 ppm STEL; 384 mg/m3 STEL
	50 ppm TWA; 192 mg/m3 TWA
	Potential for cutaneous absorption
Italy:	192 ppm TWA; 50 mg/m3 TWA
Netherlands:	384 mg/m3 STEL
	150 mg/m3 TWA
Portugal:	50 ppm TWA [VLE-MP]
Spain:	100 ppm STEL [VLA-EC]; 384 mg/m3 STEL [VLA-EC]
	50 ppm TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 192 mg/m3 TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)
	skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 200 mg/m3 LLV
	100 ppm STV; 400 mg/m3 STV

Butane (203-448-7)

ACGIH:	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)
Austria:	1600 ppm STEL [KZW] (3 X 60 min); 3800 mg/m3 STEL [KZW] (3 X 60 min)
	800 ppm TWA [TMW]; 1900 mg/m3 TWA [TMW]
Belgium:	1000 ppm TWA (as Aliphatic hydrocarbons [alkanes C1-4], gas)
Denmark:	500 ppm TWA; 1200 mg/m3 TWA
Finland:	1000 ppm STEL; 2400 mg/m3 STEL
	800 ppm TWA; 1900 mg/m3 TWA
France:	800 ppm TWA [VME]; 1900 mg/m3 TWA [VME]
Germany:	1000 ppm TWA AGW (exposure factor 4); 2400 mg/m3 TWA AGW (exposure factor 4)
	1000 ppm TWA MAK; 2400 mg/m3 TWA MAK
	4000 ppm Peak (listed under Butane); 9600 mg/m3 Peak (listed under Butane)
Greece:	1000 ppm TWA; 2350 mg/m3 TWA
Ireland:	1000 ppm TWA
Spain:	1000 ppm TWA [VLA-ED]

Xylenes (o-, m-, p- isomers) (215-535-7)

ACGIH:	150 ppm STEL 100 ppm TWA
Austria:	100 ppm STEL [KZW] (4 X 15 min); 442 mg/m3 STEL [KZW] (all isomers, 4 X 15 min) 50 ppm TWA [TMW]; 221 mg/m3 TWA [TMW] (all isomers) skin notation
Belgium:	100 ppm STEL; 442 mg/m3 STEL 50 ppm TWA; 221 mg/m3 TWA Skin
Denmark:	25 ppm TWA; 109 mg/m3 TWA Potential for cutaneous absorption (listed under Xylene, all isomers)
Finland:	100 ppm STEL; 440 mg/m3 STEL 50 ppm TWA; 220 mg/m3 TWA Potential for cutaneous absorption
France:	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit) 50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME] (restrictive limit)
Germany:	100 ppm TWA AGW (all isomers, exposure factor 2); 440 mg/m3 TWA AGW (all isomers, exposure factor 2) 1.5 mg/L Medium: whole blood Time: end of shift Parameter: Xylene (all isomers); 2 g/L Medium: urine Time: end of shift Parameter: Xylene (all isomers) 100 ppm TWA MAK; 440 mg/m3 TWA MAK 200 ppm Peak (all isomers); 880 mg/m3 Peak (all isomers)
Greece:	150 ppm STEL; 650 mg/m3 STEL 100 ppm TWA; 435 mg/m3 TWA
Ireland:	100 ppm STEL; 442 mg/m3 STEL 50 ppm TWA; 221 mg/m3 TWA Potential for cutaneous absorption
Italy:	50 ppm TWA (pure); 221 mg/m3 TWA (pure)
Netherlands:	442 mg/m3 STEL 210 mg/m3 TWA skin notation
Portugal:	100 ppm TWA [VLE-MP]
Spain:	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC] 50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value) skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 200 mg/m3 LLV 100 ppm STV; 450 mg/m3 STV

Benzene, 1,2,4-trimethyl- (202-436-9)

Austria:	30 ppm STEL [KZW] (4 X 15 min); 150 mg/m3 STEL [KZW] (4 X 15 min) 20 ppm TWA [TMW]; 100 mg/m3 TWA [TMW]
Denmark:	20 ppm TWA; 100 mg/m3 TWA
Finland:	20 ppm TWA; 100 mg/m3 TWA
France:	50 ppm STEL [VLCT] (restrictive limit); 250 mg/m3 STEL [VLCT] (restrictive limit) 20 ppm TWA [VME] (restrictive limit); 100 mg/m3 TWA [VME] (restrictive limit)
Germany:	20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 2); 100 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 2) 20 ppm TWA MAK; 100 mg/m3 TWA MAK 40 ppm Peak (all isomers, listed under Trimethylbenzene); 200 mg/m3 Peak (all isomers, listed under Trimethylbenzene)
Greece:	25 ppm TWA; 125 mg/m3 TWA
Ireland:	20 ppm TWA; 100 mg/m3 TWA
Italy:	20 ppm TWA; 100 mg/m3 TWA
Netherlands:	200 mg/m3 STEL 100 mg/m3 TWA
Spain:	20 ppm TWA [VLA-ED] (indicative limit value); 100 mg/m3 TWA [VLA-ED] (indicative limit value)
Sweden:	25 ppm LLV; 120 mg/m3 LLV 35 ppm STV; 170 mg/m3 STV

Ethyl alcohol (200-578-6)

ACGIH:	1000 ppm STEL
Austria:	2000 ppm STEL [KZW] (3 X 60 min); 3800 mg/m3 STEL [KZW] (3 X 60 min) 1000 ppm TWA [TMW]; 1900 mg/m3 TWA [TMW]
Belgium:	1000 ppm TWA; 1907 mg/m3 TWA
Denmark:	1000 ppm TWA; 1900 mg/m3 TWA
Finland:	1300 ppm STEL; 2500 mg/m3 STEL 1000 ppm TWA; 1900 mg/m3 TWA
France:	5000 ppm STEL [VLCT]; 9500 mg/m3 STEL [VLCT] 1000 ppm TWA [VME]; 1900 mg/m3 TWA [VME]
Germany:	500 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 2); 960 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, exposure factor 2) 500 ppm TWA MAK; 960 mg/m3 TWA MAK 1000 ppm Peak; 1920 mg/m3 Peak
Greece:	1000 ppm TWA; 1900 mg/m3 TWA
Ireland:	1000 ppm TWA; 1900 mg/m3 TWA
Netherlands:	1900 mg/m3 STEL 260 mg/m3 TWA skin notation
Portugal:	1000 ppm TWA [VLE-MP]
Spain:	1000 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound); 1910 mg/m3 TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound)
Sweden:	500 ppm LLV; 1000 mg/m3 LLV 1000 ppm STV; 1900 mg/m3 STV

Ethylbenzene (202-849-4)

ACGIH:	20 ppm TWA
Austria:	200 ppm STEL [KZW] (8 X 5 min); 880 mg/m3 STEL [KZW] (8 X 5 min) 100 ppm TWA [TMW]; 440 mg/m3 TWA [TMW] skin notation
Belgium:	125 ppm STEL; 551 mg/m3 STEL 100 ppm TWA; 442 mg/m3 TWA Skin
Denmark:	50 ppm TWA; 217 mg/m3 TWA
Finland:	200 ppm STEL; 880 mg/m3 STEL 50 ppm TWA; 220 mg/m3 TWA Potential for cutaneous absorption
France:	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit) 20 ppm TWA [VME] (restrictive limit); 88.4 mg/m3 TWA [VME] (restrictive limit)
Germany:	100 ppm TWA AGW (exposure factor 2); 440 mg/m3 TWA AGW (exposure factor 2) 1 mg/L Medium: whole blood Time: end of shift Parameter: Ethylbenzene; 800 mg/g Medium: urine Time: end of shift Parameter: Mandelic acid plus Phenylglyoxylic acid (measured as mg/g Creatinine) 20 ppm TWA MAK; 88 mg/m3 TWA MAK 40 ppm Peak; 176 mg/m3 Peak
Greece:	125 ppm STEL; 545 mg/m3 STEL 100 ppm TWA; 435 mg/m3 TWA
Ireland:	200 ppm STEL; 884 mg/m3 STEL 100 ppm TWA; 442 mg/m3 TWA Potential for cutaneous absorption
Italy:	100 ppm TWA; 442 mg/m3 TWA
Netherlands:	430 mg/m3 STEL 215 mg/m3 TWA skin notation
Portugal:	100 ppm TWA [VLE-MP]
Spain:	200 ppm STEL [VLA-EC]; 884 mg/m3 STEL [VLA-EC] 100 ppm TWA [VLA-ED] (indicative limit value); 441 mg/m3 TWA [VLA-ED] (indicative limit value) skin - potential for cutaneous exposure
Sweden:	50 ppm LLV; 200 mg/m3 LLV 100 ppm STV; 450 mg/m3 STV

Benzene (200-753-7)

ACGIH:	2.5 ppm STEL
	0.5 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route
Austria:	skin notation
Belgium:	1 ppm TWA; 3.25 mg/m3 TWA
	Skin
Denmark:	0.5 ppm TWA; 1.6 mg/m3 TWA
	Potential for cutaneous absorption
Finland:	1 ppm TWA (dust); 3.25 mg/m3 TWA (dust)
	Potential for cutaneous absorption
France:	1 ppm TWA [VME] (restrictive limit); 3.25 mg/m3 TWA [VME] (restrictive limit)
Greece:	1.0 ppm TWA; 3.19 mg/m3 TWA
Ireland:	1 ppm TWA; 3 mg/m3 TWA
	Potential for cutaneous absorption
Italy:	1 ppm TWA; 3.25 mg/m3 TWA
Netherlands:	3.25 mg/m3 TWA
	skin notation
Portugal:	0.5 ppm TWA [VLE-MP]
Spain:	1 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH); 3.25 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)
	skin - potential for cutaneous exposure
Sweden:	0.5 ppm LLV; 1.5 mg/m3 LLV
	3 ppm STV; 9 mg/m3 STV

Hexane (203-777-6)

EU:	20 ppm TWA; 72 mg/m3 TWA
ACGIH:	50 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route
Austria:	80 ppm STEL [KZW] (4 X 15 min); 288 mg/m3 STEL [KZW] (4 X 15 min)
	20 ppm TWA [TMW]; 72 mg/m3 TWA [TMW]
Belgium:	20 ppm TWA; 72 mg/m3 TWA
Denmark:	20 ppm TWA; 72 mg/m3 TWA
Finland:	20 ppm TWA; 72 mg/m3 TWA
	Potential for cutaneous absorption
France:	20 ppm TWA [VME] (restrictive limit); 72 mg/m3 TWA [VME] (restrictive limit)
Germany:	50 ppm TWA AGW (exposure factor 8); 180 mg/m3 TWA AGW (exposure factor 8)
	5 mg/L Medium: urine Time: end of shift Parameter: 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone
	50 ppm TWA MAK; 180 mg/m3 TWA MAK
	400 ppm Peak; 1440 mg/m3 Peak
Greece:	20 ppm TWA; 72 mg/m3 TWA
Ireland:	20 ppm TWA; 72 mg/m3 TWA
Italy:	20 ppm TWA; 72 mg/m3 TWA
Netherlands:	144 mg/m3 STEL
	72 mg/m3 TWA
Portugal:	50 ppm TWA [VLE-MP]
Spain:	20 ppm TWA [VLA-ED] (indicative limit value); 72 mg/m3 TWA [VLA-ED] (indicative limit value)
Sweden:	25 ppm LLV; 90 mg/m3 LLV
	50 ppm STV; 180 mg/m3 STV

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile, neoprene, or PVC are recommended.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Translucent, straw-colored or light yellow	**Odor:**	Strong, characteristic aromatic hydrocarbon odor. Sweet-ether like
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	6.4 - 15 RVP @ 100 °F (38 °C) (275-475 mm Hg @ 68 °F (20 °C)	**Vapor Density:**	AP 3-4
Boiling Point:	85-437 °F (39-200 °C)	**Melting Point:**	ND
Solubility (H2O):	Negligible to Slight	**Specific Gravity:**	0.70-0.78
Evaporation Rate:	10-11	**VOC:**	ND
Percent Volatile:	100%	**Octanol/H2O Coeff.:**	ND
Flash Point:	-45 °F (-43 °C)	**Flash Point Method:**	PMCC
Upper Flammability Limit (UFL):	7.6%	**Lower Flammability Limit (LFL):**	1.4%
Burning Rate:	ND	**Auto Ignition:**	>530°F (>280°C)

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Gasoline, motor fuel (86290-81-5)
Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat 14000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Toluene (108-88-3)
Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

Butane (106-97-8)
Inhalation LC50 Rat 658 mg/L 4 h

Xylenes (o-, m-, p- isomers) (1330-20-7)
Inhalation LC50 Rat 5000 ppm 4 h; Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg; Dermal LD50 Rabbit >1700 mg/kg

Benzene, 1,2,4-trimethyl- (95-63-6)
Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 3400 mg/kg; Dermal LD50 Rabbit >3160 mg/kg

Ethyl alcohol (64-17-5)
Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

Ethylbenzene (100-41-4)
Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

Benzene (71-43-2)
Inhalation LC50 Rat 13050-14380 ppm 4 h; Oral LD50 Rat 1800 mg/kg

Hexane (110-54-3)
Inhalation LC50 Rat 48000 ppm 4 h; Oral LD50 Rat 25 g/kg; Dermal LD50 Rabbit 3000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Moderate irritant. Contact with liquid or vapor may cause irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product may cause genetic defects.

Carcinogenicity

A: General Product Information

May cause cancer.

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

B: Component Carcinogenicity

Gasoline, motor fuel (86290-81-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC: Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))

Ethylbenzene (100-41-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen
OSHA: 5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA
NIOSH: potential occupational carcinogen
NTP: Known Human Carcinogen (Select Carcinogen)
IARC: Monograph 100F [in preparation]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1 (carcinogenic to humans))

Reproductive Toxicity

This product is suspected of damaging fertility or the unborn child.

Specified Target Organ General Toxicity: Single Exposure

This product may cause drowsiness or dizziness.

Specified Target Organ General Toxicity: Repeated Exposure

This product causes damage to organs through prolonged or repeated exposure.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Gasoline, motor fuel (86290-81-5)

Test & Species		Conditions
96 Hr LC50 Alburnus alburnus	119 mg/L [static]	
96 Hr LC50 Cyprinodon variegatus	82 mg/L [static]	
72 Hr EC50 Pseudokirchneriella subcapitata	56 mg/L	
24 Hr EC50 Daphnia magna	170 mg/L	

Toluene (108-88-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi-static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	

Xylenes (o-, m-, p- isomers) (1330-20-7)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	13.4 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	2.661-4.093 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	13.5-17.3 mg/L	
96 Hr LC50 Lepomis macrochirus	13.1-16.5 mg/L [flow-through]	
96 Hr LC50 Lepomis macrochirus	19 mg/L	
96 Hr LC50 Lepomis macrochirus	7.711-9.591 mg/L [static]	
96 Hr LC50 Pimephales promelas	23.53-29.97 mg/L [static]	
96 Hr LC50 Cyprinus carpio	780 mg/L [semi-static]	
96 Hr LC50 Cyprinus carpio	>780 mg/L	
96 Hr LC50 Poecilia reticulata	30.26-40.75 mg/L [static]	
48 Hr EC50 water flea	3.82 mg/L	
48 Hr LC50 Gammarus lacustris	0.6 mg/L	

Benzene, 1,2,4-trimethyl- (95-63-6)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	7.19-8.28 mg/L [flow-through]	
48 Hr EC50 Daphnia magna	6.14 mg/L	

Ethyl alcohol (64-17-5)

Test & Species	Conditions
96 Hr LC50 Oncorhynchus mykiss	12.0 - 16.0 mL/L [static]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]
96 Hr LC50 Pimephales promelas	13400 - 15100 mg/L [flow-through]
48 Hr LC50 Daphnia magna	9268 - 14221 mg/L
24 Hr EC50 Daphnia magna	10800 mg/L
48 Hr EC50 Daphnia magna	2 mg/L [Static]

Ethylbenzene (100-41-4)

Test & Species	Conditions
96 Hr LC50 Oncorhynchus mykiss	11.0-18.0 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	7.55-11 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	32 mg/L [static]
96 Hr LC50 Pimephales promelas	9.1-15.6 mg/L [static]
96 Hr LC50 Poecilia reticulata	9.6 mg/L [static]
72 Hr EC50 Pseudokirchneriella subcapitata	4.6 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata	>438 mg/L
72 Hr EC50 Pseudokirchneriella subcapitata	2.6 - 11.3 mg/L [static]
96 Hr EC50 Pseudokirchneriella subcapitata	1.7 - 7.6 mg/L [static]
48 Hr EC50 Daphnia magna	1.8 - 2.4 mg/L

Benzene (71-43-2)

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	10.7-14.7 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	5.3 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	22.49 mg/L [static]
96 Hr LC50 Poecilia reticulata	28.6 mg/L [static]
96 Hr LC50 Pimephales promelas	22330-41160 µg/L [static]
96 Hr LC50 Lepomis macrochirus	70000-142000 µg/L [static]
72 Hr EC50 Pseudokirchneriella subcapitata	29 mg/L
48 Hr EC50 Daphnia magna	8.76 - 15.6 mg/L [Static]
48 Hr EC50 Daphnia magna	10 mg/L

Hexane (110-54-3)

Test & Species	Conditions

96 Hr LC50 Pimephales promelas	2.1-2.98 mg/L [flow-through]
24 Hr EC50 Daphnia magna	>1000 mg/L

Persistence/Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Soil
No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

IATA Information
Shipping Name: Gasoline
UN #: 1203 **Hazard Class:** 3 **Packing Group:** II

ICAO Information
Shipping Name: Gasoline
UN #: 1203 **Hazard Class:** 3 **Packing Group:** II

IMDG Information
Shipping Name: Gasoline
UN #: 1203 **Hazard Class:** 3 **Packing Group:** II

* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis – Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Gasoline, motor fuel 86290-81-5	289-220-8	EINECS	DSL	No
Toluene 108-88-3	203-625-9	EINECS	DSL	Yes
Butane 106-97-8	203-448-7	EINECS	DSL	Yes
Xylenes (o-, m-, p- isomers) 1330-20-7	215-535-7	EINECS	DSL	Yes
Benzene, 1,2,4-trimethyl- 95-63-6	202-436-9	EINECS	DSL	Yes

Ethyl alcohol 64-17-5	200-578-6	EINECS	DSL	Yes
Ethylbenzene 100-41-4	202-849-4	EINECS	DSL	Yes
Benzene 71-43-2	200-753-7	EINECS	DSL	Yes
Hexane 110-54-3	203-777-6	EINECS	DSL	Yes

* * * Section 16 - Other Information * * *

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Delo ELC Antifreeze/Coolant - Premixed 50/50

Product Use: Antifreeze/Coolant
Product Number(s): 227811
Synonyms: Delo Extended Life Coolant 50/50 - Bitterant
Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

Transportation Emergency Response
CHEMTREC: (800) 424-9300 or (703) 527-3887
Health Emergency
Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623
Product Information
email : lubemsds@chevron.com
Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION: Target organ toxicant (repeated exposure): Category 2. Reproductive toxicant (developmental): Category 2.



Signal Word: Warning

Health Hazards: Suspected of damaging the unborn child.

Target Organs: May cause damage to organs (Kidney) through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required.
Response: Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Ethylene Glycol	107-21-1	30 - 60 %weight
Sodium 2-ethylhexanoate	19766-89-3	1 - 5 %weight
Molybdic acid, disodium salt, dihydrate	10102-40-6	0.1 - 1 %weight

SECTION 4 FIRST AID MEASURES

Description of first aid measures
Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects, both acute and delayed
IMMEDIATE HEALTH EFFECTS
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
Ingestion: Toxic; may be harmful or fatal if swallowed.
Inhalation: Not expected to be harmful if inhaled. Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may

include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

DELAYED OR OTHER HEALTH EFFECTS:
Reproduction and Birth Defects: Contains material that may cause adverse reproductive effects if swallowed based on animal data. Contains material that may cause harm to the unborn child if swallowed based on animal data.
Target Organs: Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit:Kidney Risk depends on duration and level of exposure. See Section 11 for additional information.

Indication of any immediate medical attention and special treatment needed Not Applicable

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Dry Chemical, CO2, AFFF Foam or alcohol resistant foam.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Do not taste or swallow antifreeze or solution. Keep out of the reach of children and animals.
Precautionary Measures: Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling. Keep out of the reach of children.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty

container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

General Storage Information: Do not store in open or unlabeled containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits. Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT
Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Natural rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride (PVC or Vinyl).
Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: No respiratory protection is normally required. Air-Purifying Respirator for Organic Vapors, Dusts and Mists.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Ethylene Glycol	ACGIH	--	--	100 mg/m3	--
Sodium 2-ethylhexanoate	Not Applicable	--	--	--	--
Molybdic acid, disodium salt, dihydrate	ACGIH	.5 mg/m3	--	--	A3 A3

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Red
Physical State: Liquid
Odor: Faint or Mild
Odor Threshold: No data available
pH: 8.1 - 8.5
Vapor Pressure: 0.12 mmHg (Typical) @ 20 °C (68 °F)
Vapor Density (Air = 1): 2.1
Initial Boiling Point: 108.9°C (228°F)
Solubility: Miscible
Freezing Point: -37°C (-34.6°F)
Specific Gravity: 1.08 @ 15.6°C (60.1°F) / 15.6°C (60.1°F)
Viscosity: No data available
Decomposition temperature: No Data Available
Octanol/Water Partition Coefficient: No data available

FLAMMABLE PROPERTIES:
Flammability (solid, gas): No Data Available

Flashpoint: (Cleveland Open Cup) 160 °C (320 °F) (Typical)
Autoignition: No data available
Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials: Not applicable
Hazardous Decomposition Products: Ketones (Elevated temperatures), Aldehydes (Elevated temperatures)
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects
Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product components.
Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

Carcinogenicity: The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:
This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY
This material is not expected to be harmful to aquatic organisms.
The product has not been tested. The statement has been derived from products of a similar structure and composition.

MOBILITY
No data available.

PERSISTENCE AND DEGRADABILITY
This material is expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.
The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE
Bioconcentration Factor: No data available.
Octanol/Water Partition Coefficient: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: PROPRIETARY ANTIFREEZE PREPARATION IN NON-BULK PACKAGING; NOT REGULATED FOR TRANSPORT UNDER 49 CFR
Additional Information: Bulk shipments containing a reportable quantity (RQ, 5000 pounds or more) of ethylene glycol in a single packaging are transported as hazardous material. The shipping description is: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETHYLENE GLYCOL CONTAINS BITTERANT), 9, III, RQ (ETHYLENE GLYCOL)

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: Anti-freeze Preparations, Proprietary; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:
Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	YES
2.	Delayed (Chronic) Health Effects:	YES
3.	Fire Hazard:	NO
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

The following components of this material are found on the regulatory lists indicated.
Ethylene Glycol 03, 05, 06, 07

CHEMICAL INVENTORIES:
All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: Refer to components listed in Section 3.

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 2 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 2* Flammability: 1 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

LABEL RECOMMENDATION:
Label Category : ANTIFREEZE/COOLANT 13 - AFC13

REVISION STATEMENT: This revision updates the following sections of this Safety Data Sheet: 1-16
Revision Date: MARCH 18, 2015

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Safety Data Sheet

Material Name: Diesel Fuel, All Types

SDS No. 9909
US GHS

Synonyms: Ultra Low Sulfur Diesel; Low Sulfur Diesel; No. 2 Diesel; Motor Vehicle Diesel Fuel; Non-Road Diesel Fuel; Locomotive/Marine Diesel Fuel

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquids - Category 3
Skin Corrosion/Irritation – Category 2
Germ Cell Mutagenicity – Category 2
Carcinogenicity - Category 2
Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)
Aspiration Hazard – Category 1
Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statements

Flammable liquid and vapor.
Causes skin irritation.
Suspected of causing genetic defects.
Suspected of causing cancer.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing fume/mist/vapours/spray.

Response
In case of fire: Use water spray, fog or foam to extinguish.
IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.

Storage
Store in a well-ventilated place. Keep cool.
Keep container tightly closed.
Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
68476-34-6	Fuels, diesel, no. 2	100
91-20-3	Naphthalene	<0.1

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes
In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin
Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and the area of the body burned.

First Aid: Ingestion
DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, and other gaseous agents.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Incompatibilities

Keep away from strong oxidizers.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Fuels, diesel, no. 2 (68476-34-6)

ACGIH: 100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)
Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)

Naphthalene (91-20-3)

ACGIH: 10 ppm TWA
15 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 10 ppm TWA; 50 mg/m3 TWA
NIOSH: 10 ppm TWA; 50 mg/m3 TWA
15 ppm STEL; 75 mg/m3 STEL

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile, neoprene, or PVC are recommended.

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Clear, straw-yellow.	**Odor:**	Mild, petroleum distillate odor
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	0.009 psia @ 70 °F (21 °C)	**Vapor Density:**	>1.0
Boiling Point:	320 to 690 °F (160 to 366 °C)	**Melting Point:**	ND
Solubility (H2O):	Negligible	**Specific Gravity:**	0.83-0.876 @ 60°F (16°C)
Evaporation Rate:	Slow; varies with conditions	**VOC:**	ND
Percent Volatile:	100%	**Octanol/H2O Coeff.:**	ND
Flash Point:	>125 °F (>52 °C) minimum	**Flash Point Method:**	PMCC
Upper Flammability Limit (UFL):	7.5	**Lower Flammability Limit (LFL):**	0.6
Burning Rate:	ND	**Auto Ignition:**	494°F (257°C)

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Naphthalene (91-20-3)

Inhalation LC50 Rat >340 mg/m3 1 h; Oral LD50 Rat 490 mg/kg; Dermal LD50 Rat >2500 mg/kg; Dermal LD50 Rabbit >20 g/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause mild irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This material has been positive in a mutagenicity study.

Carcinogenicity

A: General Product Information

Suspected of causing cancer.

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

B: Component Carcinogenicity

Fuels, diesel, no. 2 (68476-34-6)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel fuel)

Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuels, diesel, no. 2 (68476-34-6)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	35 mg/L [flow-through]	

Naphthalene (91-20-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	5.74-6.44 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	1.6 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	0.91-2.82 mg/L [static]	
96 Hr LC50 Pimephales promelas	1.99 mg/L [static]	

96 Hr LC50 Lepomis macrochirus	31.0265 mg/L [static]
72 Hr EC50 Skeletonema costatum	0.4 mg/L
48 Hr LC50 Daphnia magna	2.16 mg/L
48 Hr EC50 Daphnia magna	1.96 mg/L [Flow through]
48 Hr EC50 Daphnia magna	1.09 - 3.4 mg/L [Static]

Persistence/Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Soil
No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

DOT Information
Shipping Name: Diesel Fuel
NA #: 1993 **Hazard Class:** 3 **Packing Group:** III
Placard:



* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Naphthalene (91-20-3)

CERCLA: 100 lb final RQ; 45.4 kg final RQ

SARA Section 311/312 – Hazard Classes

Acute Health	Chronic Health	Fire	Sudden Release of Pressure	Reactive
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the de minimis levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right- To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Fuels, diesel, no. 2	68476-34-6	No	No	No	Yes	No	No
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Fuels, diesel, no. 2	68476-34-6	Yes	DSL	EINECS
Naphthalene	91-20-3	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

NFPA® Hazard Rating

Health	1
Fire	2
Reactivity	0



HMIS® Hazard Rating

Health	1*	Slight
Fire	2	Moderate
Physical	0	Minimal
		*Chronic

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

SAFETY DATA SHEET

03901

Section 1. Identification

Product name : KRYLON® Industrial QUIK-MARK™ Water-Based Inverted Marking Paint (APWA) Brilliant White

Product code : 03901

Other means of identification : Not available.

CAS # : Not applicable.

Product type : Aerosol.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Manufacturer : Krylon Products Group
Cleveland, OH 44115

Emergency telephone number of the company : (216) 566-2917

Product Information Telephone Number : (800) 247-3266

Regulatory Information Telephone Number : (216) 566-2902

Transportation Emergency Telephone Number : (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (Fertility) - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 17.5%

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazards identification

Hazard statements : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging fertility or the unborn child.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Propane	10.2	74-98-6
Toluene	9	108-88-3
Butane	4.8	106-97-8
Hexane	4.43	110-54-3
Titanium Dioxide	3.28	13463-67-7
Xylene	2.35	1330-20-7
2-Methylpentane	2.05	107-83-5
Lt. Aliphatic Hydrocarbon Solvent	1.94	64742-89-8
Ethylbenzene	0.42	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Section 5. Fire-fighting measures

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Propane	**NIOSH REL (United States, 10/2013).** TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.
Toluene	**OSHA PEL Z2 (United States, 2/2013).** TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. **NIOSH REL (United States, 10/2013).** TWA: 100 ppm 10 hours. TWA: 375 mg/m³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m³ 15 minutes. **ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours.
Butane	**NIOSH REL (United States, 10/2013).** TWA: 800 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2015).** STEL: 1000 ppm 15 minutes.
Hexane	**ACGIH TLV (United States, 3/2015).** **Absorbed through skin.** TWA: 50 ppm 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 50 ppm 10 hours. TWA: 180 mg/m³ 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.
Titanium Dioxide	**ACGIH TLV (United States, 3/2015).** TWA: 10 mg/m³ 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 15 mg/m³ 8 hours. Form: Total dust
Xylene	**ACGIH TLV (United States, 3/2015).** TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m³ 15 minutes. **OSHA PEL (United States, 2/2013).** TWA: 100 ppm 8 hours.

	TWA: 435 mg/m³ 8 hours.
2-Methylpentane	**ACGIH TLV (United States, 3/2015).** TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2013).** TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.
Lt. Aliphatic Hydrocarbon Solvent	None.
Ethylbenzene	**ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours. **NIOSH REL (United States, 10/2013).** TWA: 100 ppm 10 hours. TWA: 435 mg/m³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. **OSHA PEL (United States, 2/2013).** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.

Occupational exposure limits (Canada)

Ingredient name	Exposure limits
Propane	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 1000 ppm 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 1000 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 1000 ppm 8 hours. **CA Saskatchewan Provincial (Canada, 7/2013).** STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.
Toluene	**CA Alberta Provincial (Canada, 4/2009). Absorbed through skin.** 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 5/2015).** TWA: 20 ppm 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 20 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014). Absorbed through skin.** TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.** STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.

Hexane	**CA Alberta Provincial (Canada, 4/2009). Absorbed through skin.** 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 176 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 5/2015). Absorbed through skin.** TWA: 20 ppm 8 hours. **CA Ontario Provincial (Canada, 7/2015). Absorbed through skin.** TWA: 50 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014). Absorbed through skin.** TWAEV: 50 ppm 8 hours. TWAEV: 176 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.** STEL: 62.5 ppm 15 minutes. TWA: 50 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : 7

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

Evaporation rate : 9.1 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 0.9%
Upper: 9.5%

Vapor pressure : 13.5 kPa (101.325 mm Hg) [at 20°C]

Vapor density : 1 [Air = 1]

Relative density : 0.87

Solubility : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (room temperature): <0.205 cm^2/s (<20.5 cSt)
Kinematic (40°C (104°F)): <0.205 cm^2/s (<20.5 cSt)

Molecular weight : Not applicable.

Aerosol product

Type of aerosol : Spray

Heat of combustion : 15.14 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m³	4 hours
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Titanium Dioxide	-	2B	-
Xylene	-	3	-
Ethylbenzene	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 2	Not determined	Not determined
Toluene	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Hexane	Category 2	Not determined	Not determined
Xylene	Category 2	Not determined	Not determined
2-Methylpentane	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined

Aspiration hazard

Section 11. Toxicological information

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Hexane	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
2-Methylpentane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	5613.1 mg/kg
Inhalation (gases)	175465.3 ppm

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 µg/l Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Xylene	-	-	Readily
Ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Toluene	-	90	low
Hexane	-	501.187	high
Xylene	-	8.1 to 25.9	low
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Section 14. Transport information

Additional information	- **ERG No.** 126	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2). **ERG No.** 126	- **ERG No.** 126	-	**Emergency schedules (EmS)** F-D, S-U

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Proper shipping name : Not available.

Ship type : Not available.

Pollution category : Not available.

Section 15. Regulatory information

SARA 313

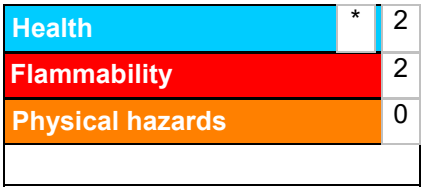
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

Classification	Justification

Section 16. Other information

FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

History

Date of printing : 10/28/2016

Date of issue/Date of revision : 10/28/2016

Date of previous issue : 8/11/2016

Version : 5.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET
Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

1. IDENTIFICATION

Product Name	Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)
Other Names	Multi-Purpose, Ammonium Phosphate, Monoammonium Phosphate
Recommended use of the chemical and restrictions on use	
Identified uses	Fire Extinguishing Agent
Restrictions on use	Consult applicable fire protection codes
Company Identification	Kidde Residential & Commercial 1016 Corporate Park Drive Mebane, NC 27302 USA
Customer Information Number	(919) 563-5911 (919) 304-8200
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300 (703) 527-3887 (International)
Issue Date	October 1, 2015
Supersedes Date	April 10, 2015

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

This SDS covers the product listed above as sold in pressurized and non-pressurized containers. GHS classifications for both forms are listed below.

GHS Classification – Pressurized

Hazard Classification
Gas under pressure – Compressed gas

Label Elements
Hazard Symbols



Signal Word: Warning

Hazard Statements
Contents under pressure; may explode if heated.

2. HAZARD IDENTIFICATION

Precautionary Statements
Prevention
None
Response
None
Storage
Protect from sunlight.
Store in well-ventilated place.
Disposal
None

GHS Classification: Non - pressurized

Hazard Classification
This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

Label Elements
Hazard Symbols
None

Signal Word: None

Hazard Statements
None

Precautionary Statements
Prevention
None
Response
None
Storage
None
Disposal
None

Other Hazards
Mica may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans.

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	< 10%
Acute dermal toxicity	< 10%
Acute inhalation toxicity	< 10%
Acute aquatic toxicity	< 10%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration
Monoammonium Phosphate	7722-76-1	55 - 65%
Ammonium Sulfate	7783-20-2	30 - 40%
Mica	12001-26-2	< 5%
Clay	1332-58-7	< 5%
Amorphous Silica	7631-86-9	< 5%
Dye	NA	<1%

Note: Pressurized product uses nitrogen or compressed air as the expellant.

4. FIRST- AID MEASURES

Description of necessary first-aid measures

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

Ingestion

Dilute by drinking large quantities of water and obtain medical attention.

Inhalation

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved. Keep pressurized containers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

Specific hazards arising from the chemical

Pressurized containers may explode in heat of fire.

Special Protective Actions for Fire-Fighters

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing. Prevent skin and eye contact. Remove leaking container to a safe place. Ventilate the area.

Environmental Precautions
Prevent large quantities of the material from entering drains or watercourses.

Methods and materials for containment and cleaning up
Sweep up or vacuum and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage
Pressurized containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll pressurized containers. Do not drop pressurized containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the pressurized or plastic container. Store pressurized and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Mica
ACGIH TLV: 3 mg/m^3 TWA, measured as respirable fraction of the aerosol.
OSHA PEL**:** 20 mppcf, <1% crystalline silica
Clay as Kaolin, Respirable Fraction
ACGIH TLV: 2 mg/m^3 TWA
OSHA PEL: 15 mg/m^3 TWA, total dust
5 mg/m^3 TWA, respirable fraction
Nuisance Dust Limit
OSHA PEL: 50 mppcf or 15 mg/m^3 TWA, total dust
15 mppcf or 5 mg/m^3 TWA, respirable fraction

Appropriate engineering controls
Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

Individual protection measures
Respiratory Protection
Not normally required. Use dust mask where dustiness is prevalent, or TLV is exceeded. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin Protection
Gloves
Eye/Face Protection
Chemical goggles or safety glasses with side shields.
Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Non- Pressurized
Appearance

Physical State	Solid (powder)
Color	Pale Yellow
Odor	Odorless
Odor Threshold	No data available
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	No data available
Vapor Density (Air = 1)	Not applicable
VOC (g/l)	None
VOC (%)	None
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Flammability (solid, gas)	No data available

Expellant - Nitrogen
Appearance

Physical State	Compressed gas
Color	Colorless
Odor	None
Odor Threshold	No data available
pH	Not applicable
Specific Gravity	0.075 lb/ft^3 @70^{o}F as vapor
Boiling Range/Point (°C/F)	-196^{o}C/-321 ^{o}F
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density (Air = 1)	Not applicable
VOC (g/l)	None
VOC (%)	None
Partition coefficient (n-octanol/water)	No data available
Viscosity	Not applicable
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	Not explosive
Lower explosive limit	Not explosive
Flammability (solid, gas)	Not flammable

10. STABILITY AND REACTIVITY

Reactivity
Pressurized containers may rupture or explode if exposed to heat.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Exposure to direct sunlight - contact with incompatible materials

Incompatible Materials
Strong oxidizing agents - strong acids - sodium hypochlorite

Hazardous Decomposition Products
Oxides of carbon - ammonia - oxides of phosphorus - nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Monoammonium Phosphate:
Oral LD50 (Rat) 5750 mg/kg
Dermal LD50 (Rabbit) >5000mg/kg
Inhalation LC50 (Rat) 5.1mg/l
Ammonium Sulfate:
Oral LD50 (Rat) 4250 mg/kg
Dermal LD50 (Rabbit) >2000mg/kg
Mica:
Oral LD50 (Rat) >2000 mg/kg
Amorphous Silica:
Oral LD50 (Rat) >5000 mg/kg
Dermal LD50 (Rabbit) >2000mg/kg

11. TOXICOLOGICAL INFORMATION

Clay:
Oral LD50 (Rat) >5000 mg/kg
Dermal LD50 (Rabbit) >5000mg/kg
Nitrogen
Simple asphyxiant

Specific Target Organ Toxicity (STOT) – single exposure
Monoammonium Phosphate: Available data indicates this component is not expected to cause target organ effects after a single exposure.
Ammonium Sulfate: Available data indicates this component is not expected to cause target organ effects after a single exposure.
Nitrogen: Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

Specific Target Organ Toxicity (STOT) – repeat exposure
Monoammonium Phosphate: Available data indicates this component is not expected to cause target organ effects after repeat exposure.
Ammonium Sulfate: Available data indicates this component is not expected to cause target organ effects after repeat exposure.

Serious Eye damage/Irritation
Monoammonium Phosphate: Not irritating (rabbit)
Ammonium Sulfate: Not irritating (rabbit)
Mica: Not irritating (rabbit)

Skin Corrosion/Irritation
Monoammonium Phosphate: Not irritating in rabbit test study
Ammonium Sulfate: Not irritating (rabbit)
Mica: Not irritating (rabbit)

Respiratory or Skin Sensitization
Monoammonium Phosphate: Not skin sensitizing based on test (Mouse local lymphnode assay (LLNA)) on an analogous compound
Ammonium Sulfate: Not sensitizing in Guinea pig maximisation test

Carcinogenicity
Mica may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC has classified Silica Dust, Crystalline, in the form of quartz or cristobalite as 1 (carcinogenic to humans).

Germ Cell Mutagenicity
Monoammonium Phosphate: Not mutagenic in the mouse lymphoma cells in mammalian cell gene mutation assay
Ammonium Sulfate: Negative results in Ames Test, in vitro mammalian chromosome aberration test, and mammalian cell gene mutation assay.

11. TOXICOLOGICAL INFORMATION

Reproductive Toxicity
Monoammonium Phosphate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.
Ammonium Sulfate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Monoammonium Phosphate:
LC50 rainbow trout >100 mg/l 96h
LC50 water flea 1790 mg/l 72h (similar substance)

Mobility in soil
No relevant studies identified.

Persistence/Degradability
No relevant studies identified.

Bioaccumulative Potential
No relevant studies identified.

Other adverse effects
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of container in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

Special Precautions for Shipping:
Individuals must be certified as Hazardous Material Shipper for all transportation modes.
Pressurized Fire Extinguishers are considered a hazardous material by the US Department of Transportation and Transport Canada.

DOT CFR 172.101 Data	Fire extinguishers, 2.2, UN1044
UN Proper Shipping Name	Fire extinguishers
UN Class	(2.2)
UN Number	UN1044
UN Packaging Group	Not applicable

14. TRANSPORT INFORMATION

Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.
Classification for Water Transport IMDG	Consult current IMDG Regulations prior to shipping by water.

When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches in size meet the requirements of "Limited Quantity" as referenced in 49 CFR 173.309 (2010). There is no limited quantity designation for fire extinguishers when shipped by air or water.

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

15. REGULATORY INFORMATION

United States TSCA Inventory
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

Canada DSL Inventory
All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorization: Pressurized
Pressure hazard
SARA Title III Sect. 311/312 Categorization: Non-pressurized
None

SARA Title III Sect. 313
This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Health - 1
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Health - 1
HMIS Code for Flammability - 0
HMIS Code for Physical Hazard - 0
HMIS Code for Personal Protection - See Section 8
*Chronic

16. OTHER INFORMATION

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
CAS#: Chemical Abstracts Service Number
EC50: Effect Concentration 50%
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: October 1, 2015
Replaces: April 10, 2015
Changes made: Update to Section 14.

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Kidde Residential & Commercial assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.

Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Ursa Super Plus EC SAE 15W-40

Product Use: Diesel Engine Oil
Product Number(s): 219382, 271201, 278068
Synonyms: Ursa Super Plus EC SAE 15W-40 ISOCLEAN Certified
Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

Transportation Emergency Response
CHEMTREC: (800) 424-9300 or (703) 527-3887
Health Emergency
Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623
Product Information
email : lubemsds@chevron.com
Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION: Not classified as hazardous according to 29 CFR 1910.1200 (2012).

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects, both acute and delayed

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

DELAYED OR OTHER HEALTH EFFECTS: Not classified

Indication of any immediate medical attention and special treatment needed Not Applicable

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Precautionary Measures: Keep out of the reach of children.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to

harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT
Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.
Respiratory Protection: No respiratory protection is normally required.
If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m3	--	--	--
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m3	10 mg/m3	--	--

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Light to Brown
Physical State: Liquid
Odor: Petroleum odor
Odor Threshold: No data available
pH: Not Applicable
Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)
Vapor Density (Air = 1): >1
Initial Boiling Point: 315°C (599°F)
Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable
Melting Point: Not Applicable -
Density: 0.90 kg/l @ 15°C (59°F) (Typical)
Viscosity: 15.40 mm2/s @ 100°C (212°F) (Typical)
Evaporation Rate: No data available
Decomposition temperature: No data available
Octanol/Water Partition Coefficient: No data available

FLAMMABLE PROPERTIES:
Flammability (solid, gas): No Data Available

Flashpoint: (Cleveland Open Cup) 204 °C (399 °F) Minimum
Autoignition: No data available
Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials: Not applicable
Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects
Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product components.
Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

Carcinogenicity: The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

This material is not expected to be harmful to aquatic organisms.
The product has not been tested. The statement has been derived from the properties of the individual components.

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.
The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.
Octanol/Water Partition Coefficient: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS A HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:
Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK

07=PA RTK

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:
All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), KECI (Korea), PICCS (Philippines), TSCA (United States).

One or more components is listed on ELINCS (European Union). Secondary notification by the importer may be required. All other components are listed or exempted from listing on EINECS.

One or more components does not comply with the following chemical inventory requirements: ENCS (Japan).

NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Motor oil)

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 0 Flammability: 1 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This revision updates the following sections of this Safety Data Sheet: 2,3,8,9,12,14,15

Revision Date: September 09, 2016

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)

DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects, both acute and delayed

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

DELAYED OR OTHER HEALTH EFFECTS: Not classified

Indication of any immediate medical attention and special treatment needed

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Unusual Fire Hazards: Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose

such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Silver Shield, Viton, Nitrile Rubber.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m3	--	--	--
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m3	10 mg/m3	--	--

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless to yellow
Physical State: Liquid
Odor: Petroleum odor
Odor Threshold: No data available
pH: Not Applicable
Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)
Vapor Density (Air = 1): >1
Initial Boiling Point: 315°C (599°F)
Solubility: Soluble in hydrocarbon solvents; insoluble in water.
Freezing Point: Not Applicable
Melting Point: No data available
Density: 0.87 kg/l @ 15°C (59°F) (Typical)
Viscosity: 28.80 mm2/s @ 40°C (104°F) Minimum
Coefficient of Therm. Expansion / °F: No data available
Evaporation Rate: No data available
Decomposition temperature: No data available
Octanol/Water Partition Coefficient: No data available

FLAMMABLE PROPERTIES:
Flammability (solid, gas): No Data Available

Flashpoint: (Cleveland Open Cup) 170 °C (338 °F) Minimum
Autoignition: No data available
Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials: Not applicable
Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects
Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product components.
Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

Carcinogenicity: The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

This material is not expected to be harmful to aquatic organisms.
The product has not been tested. The statement has been derived from the properties of the individual components.

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.
The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.
Octanol/Water Partition Coefficient: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS A HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:
Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	NO
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	NO
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:
All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Hydraulic oil)

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 0 Flammability: 1 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: This revision updates the following sections of this Safety Data Sheet: 1 - 16
Revision Date: FEBRUARY 05, 2016

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration

Cancer	
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

APPENDIX D
AIR MONITORING LOGS

AES, Inc.

AIR MONITORING LOG

PROJECT:		DATE:	
LOCATION:		INSPECTOR:	
WEATHER:			

TIME	UPWIND READINGS (A)				DOWNWIND READINGS (B)				DUST GENERATION
	AVERAGE	MINIMUM	MAXIMUM	PID (PPM)	AVERAGE	MINIMUM	MAXIMUM	PID (PPM)	(B) AVE - (A) AVE

GENERAL COMMENTS

AES, Inc.

AIR MONITORING LOG

PROJECT:		DATE:	
LOCATION:		INSPECTOR:	
WEATHER:			

TIME	PID Reading (ppm)	Comments

GENERAL COMMENTS

APPENDIX E
ACCIDENT/EXPOSURE REPORT

ACCIDENT/EXPOSURE REPORT FORM

Date of incident: _____ Time: _____ AM/PM

Location: _____

Name/Position of injured person: _____

Employer: _____

Address: _____

Phone Number(s): _____

Type of injury: _____

Details/Cause of incident: _____

_____

_____

_____

Corrective actions taken: _____

_____

_____

_____

Other Damages: _____

_____

_____

_____

_____

Comments: _____

_____

_____

_____

_____

Signature of injured party Date

_____

Report completed by Date

6.0 RECORDING/REPORTING INJURIES

This form shall be completed by the employee and his/her supervisor. If the employee is unable to complete the form, the supervisor will complete the entire form. All accident must be reported to the Site Supervisor immediately

1. INJURED PERSONAL DATA

Name of Injured: _____

Job Title: _____
Organization: _____

Address: _____

_____

Work No/Ext. ( ) _____ - _____ x ____
Home Telephone: ( ) _____ - _____

1. ACCIDENT DETAILS

Date of Accident: _____ Time of Accident ☐ am ☐ p m

What time did you start work today? _____ ☐ am ☐ pm

Did accident occur on employer's premises? ☐ Yes ☐ No If no, please fill in the location of the accident:

Accident Location: _____
Name of Place

_____
Street Name

_____ _____ _____ _____
City State Zip Code County

Weather: ☐ Rain ☐ Ice ☐ Snow ☐ Dry ☐ Wet Occurred: ☐ Indoor ☐ Outdoor

Time of Day: ☐ Light ☐ Dark ☐ Other _____ Chemical Hazard: ☐ Yes ☐ No

Briefly Describe How the Accident Occurred:

_____

_____

Witness: Name: _____ Phone Number ( ) _____ - _____

Equipment/materials involved (if applicable): _____

Cost of Property Damage: _____ Nature of Damage: _____

_____

Effect on Schedule: _____

_____

3. INJURY DESCRIPTION

☐ First Aid Treatment Only ☐ Restricted Work ☐ Near Miss ☐ Medical Treatment/Return to Work ☐ Hospitalization ☐ Lost Workdays # or days lost _____ ☐ Fatality

Physician/Treatment Facility Name: _____ Phone No: ( ) _____ - _____

Address: _____ _____ _____ _____
Street Address City State Zip Code

Describe body part injured: _____ Is this a re-injury ☐ Yes ☐ No

_____

Employee Signature **Supervisor's Signature** **Date of Report**

_____ _____ _____

ACCIDENT INVESTIGATION FORM

PART ONE – INJURED EMPLOYEE INFORMATION

1. Name of Injured:	2. Name of Organization _____	3. Date of Incident	4. Sex ☐ M ☐ F
5. Home Address _____ _____	6. Employee's Usual Occupation	7. Occupation at Time of Incident	8. Age
9. Employment Category ☐ Regular, full-time ☐ Regular, part-time ☐ Temporary ☐ Non-Employee	10. Length of Employment ☐ Less than 1 month ☐ 1 – 5 month ☐ 6 months to 5 years ☐ More than 5 years	11. Time in Occupation at time of Accident	

PART TWO – DESCRIPTION OF INJURY

12. Nature of Injury/Part of Body Injured ☐ Head/neck/face ☐ Truck/torso ☐ Upper Extremities ☐ Lower Extremities ☐ Body Systems	13. Time of Injury ____: _____ ☐ a.m. ☐ p.m.	14. Severity of Injury ☐ Fatality ☐ Lost workdays ☐ Restricted Activity ☐ Medical Treatment ☐ First Aid
15. Specific location of Accident	16. Phase of employee's workday ☐ Performing work duties ☐ Entering/leaving bldg. ☐ Working overtime ☐ During rest period ☐ During meal time	17. Names of other injured in same accident

PART THREE – DESCRIPTION OF ACCIDENT

18. Describe how the Accident Occurred:

_____

_____

19. Accident Sequence – describe in reverse order of events preceding the injury and accident. Starting with the injury and moving backward in time, reconstruct the sequence of events that led to the injury.

A. Injury Event _____

B. Accident Event _____

C. Preceding Event #1 _____

D. Preceding Event # 2 _____

20. Task and activity at time of accident

General type of task _____

Specific Activity: _____

21. Property Damage

A. Estimated property damage

_____

B. Nature of Damage/ Effect on schedule

_____

22. Employee was working:

☐ Alone ☐ With crew or fellow worker ☐ Other, specify _____

23. Supervision at time of Accident:

☐ Directly Supervised ☐ Indirectly Supervised ☐ Not Supervised ☐ Supervision not feasible

PART FOUR – MEDICAL TREATMENT

If medical treatment was necessary, please complete questions 24 & 25. If it was not necessary please write in N/A.

24. Nature of Injury/Illness

☐ Fracture/dislocate/crush	☐ Hernia/rupture	☐ Poisoning
☐ Cuts/scrape/puncture/bite	☐ Repeated trauma	☐ Skin disease or disorder
☐ Bruise/contusion	☐ Burn-chemical	☐ Dust disease of the lung
☐ Irritation	☐ Heat stress/exhaustion	☐ Respiratory, toxic agents
☐ Amputation	☐ Cold Stress/Frostbite	☐ Physical Agents, noise, radiation
	☐ Suffocate/lack of oxygen	☐ Other _____

25. Name and Address of Physician:

_____

_____

26. Name and Address of Hospital:

_____

_____

PART FIVE - TRAINING

27. How long had the employee been doing the job?

28. Had the employee been safety trained in this task? ☐ Yes ☐ No

If yes, when were they last trained? _____

29. Who gave the instructions and directions? _____

What were they? _____

30. Method of work: Was it adhered to? ☐ Yes ☐ No

If no, why not? _____

31. Had the supervisor been safety trained in this area? ☐ Yes ☐ No

If yes, when were they last trained? _____

PART SIX – ACCIDENT NARRATIVE

32. Casual Factors Events and conditions that contributed to the accident. Check all that apply.

Equipment
- ☐ Inadequate or missing guards
- ☐ Inadequate or bypassed safety devices
- ☐ Defects in equipment/material
- ☐ Failure to inspect equipment thoroughly
- ☐ Incorrect use of tools
- ☐ Correct tools not available
- ☐ Design of tools incorrect

People
- ☐ Failure to follow procedures
- ☐ Lack of alertness
- ☐ Difficulty in performing task
- ☐ Not sufficiently training
- ☐ Physical limitation

Environment
- ☐ Inadequate lighting
- ☐ Excessive noise
- ☐ Insufficient Workspace
- ☐ Inadequate Layout (congestion)
- ☐ Location of equipment/materials
- ☐ Too hot/too cold
- ☐ Weather – rain, snow, ice, wind
- ☐ Chemical Hazard/Contamination

Management
- ☐ Safety procedures not enforced
- ☐ Inadequate training
- ☐ Inadequate housekeeping
- ☐ Incorrect Instruction to employees
- ☐ Rushing to get job completed

☐ Other, explain: _____

32. Casual Factors Events and conditions that contributed to the accident. Check all that apply.

Equipment
- ☐ Inadequate or missing guards
- ☐ Inadequate or bypassed safety devices
- ☐ Defects in equipment/material
- ☐ Failure to inspect equipment thoroughly
- ☐ Incorrect use of tools
- ☐ Correct tools not available
- ☐ Design of tools incorrect

People
- ☐ Failure to follow procedures
- ☐ Lack of alertness
- ☐ Difficulty in performing task
- ☐ Not sufficiently training
- ☐ Physical limitation

Environment
- ☐ Inadequate lighting
- ☐ Excessive noise
- ☐ Insufficient Workspace
- ☐ Inadequate Layout (congestion)
- ☐ Location of equipment/materials
- ☐ Too hot/too cold
- ☐ Weather – rain, snow, ice, wind
- ☐ Chemical Hazard/Contamination

Management
- ☐ Safety procedures not enforced
- ☐ Inadequate training
- ☐ Inadequate housekeeping
- ☐ Incorrect Instruction to employees
- ☐ Rushing to get job completed

☐ Other, explain: _____

33. Corrective Actions Those that have been, or will be, taken to prevent recurrence.

Steps Taken	Responsibility of	Target Date	Completed On
1. _____			
_____	_____	_____	_____
2. _____	_____	_____	_____
_____	_____	_____	_____
3. _____	_____	_____	_____
_____	_____	_____	_____

PART SEVEN – CERTIFICATIONS

Prepared by: _____

Title: _____

Department: _____

Date: _____

Approved by: _____

Title: _____

Department: _____

Date: _____

APPENDIX C
QAPP

QUALITY ASSURANCE PROJECT PLAN (QAPP)

1665 STILLWELL AVENUE
BROOKLYN, NY 11223
NYSDEC SITE NO. C224307

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION, BUREAU B
625 BROADWAY, 12th FLOOR
ALBANY, NEW YORK 12233-7016

PREPARED FOR:

REFULGENCE LLC
8738 20th AVENUE
BROOKLYN, NEW YORK 11214

PREPARED BY:

AMERICAN ENVIRONMENTAL SOLUTIONS
42 West Avenue
Patchogue, New York 11772
TEL: (631) 475-0020
FAX: (631) 475-0025
PENDYENVENG@OPTONLINE.NET

AES Project No. 0880

REVISION #1
NOVEMBER 2021

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1.0 QUALITY ASSURANCE PROJECT PLAN (QAPP)

1.1 Project Description & Objectives

This Quality Assurance Project Plan (QAPP) has been prepared by American Environmental Solutions, Inc. (AES) on behalf of Refulgence LLC for the site located at 1665 Stillwell Avenue, Brooklyn, New York (NYSDEC BCP Site C224307). Remedial investigation activities will be conducted on-site in accordance with the Brownfield Cleanup Agreement (BCA) executed on June 14, 2021. The QAPP presents data quality objectives (DQO), methods and QA/QC requirements associated with sample collection and laboratory analysis to be performed. This QAPP specifies analytical methods and procedures to be used to ensure that data collected during proposed RI activities are precise, accurate, representative, comparable, complete and meet sensitivity requirements for the project.

The objective of the proposed sampling is to investigate and characterize the nature and extent of contamination on-site and possibly migrating off-site and to provide sufficient information to evaluate remedial alternatives. The QAPP was prepared in accordance with NYSDEC DER-10: Technical Guidance for Site Investigation and Remediation, Section 2.

1.2 Project Organization

Remedial Engineer

The Remedial Engineer for this project will be Louis G. Schwartz, P.E. of Tiderunner Engineering and Design, P.C. The Remedial Engineer is a registered Professional Engineer licensed by the State of New York. The Remedial Engineer will be responsible for implementation of the Remedial Action and future remedial program for the site. The Remedial Engineer will certify in the Final Engineering Report that remedial action was observed by qualified environmental professionals as well as that the remedial action was performed in accordance with the NYSDEC approved RAWP.

Project Manager

AES Project Manager (Brian Pendergast) will be responsible for the day-to-day project management, task leadership, and project engineering support and for the planning and implementation of RI activities and providing oversight of all field work performed. The Project Manager is responsible for ensuring that the requirements of the RIWP are implemented. The project manager will also act as the Site Health and Safety Officer (HSO). Resumes for project staff are included in Appendix A.

Analytical Laboratory

Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, Connecticut, A NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory (ELAP Number 11301) will be contracted to perform required analyses and reporting, including Analytical Services Protocol (ASP) Category B Deliverables, which will allow for data validation. Phoenix will be responsible for sample container preparation, sample custody in the laboratory and completion of the required analysis. Phyllis Shiller, Laboratory Director will ensure that laboratory QA procedures are followed and an acceptable laboratory report is prepared and submitted. Laboratory qualifications, standard operating procedures (SOPs) and certificates are included in Appendix B.

Data Validation

New Environmental Horizons, Inc. (NEH) of Skillman, New Jersey will serve as the independent third-party data validator for the project. (NEH) will be contracted to perform data validation and to provide Data Usability Summary Reports (DUSRs) for all analytical data obtained during the remedial investigation.

2.0 FIELD SAMPLING PROCEDURES

Soil and groundwater sampling will be conducted in accordance with the protocols established in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010. Soil vapor sampling will be performed in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, updated May 2017).

2.1 Soil Samples

Soil samples will be visually classified and screened using a PID to assess potential impacts from VOCs. Soil samples to be analyzed for VOCs will be collected using Terra Core samplers. Samples to be analyzed for parameters other than VOCs will be placed into glass jars provided by the laboratory using decontaminated stainless steel trowels or sterile sampling scoops. After sampling, all sample jars will be capped and securely tightened and placed in coolers with ice and maintained at 4°C until they are transported to the laboratory.

2.2 Groundwater Samples

Groundwater sampling will be conducted using low-flow sampling procedures in accordance with USEPA guidance Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells dated September 19, 2017.

During purging field parameters will be measured such as water level drawdown, purge rate, specific conductance, temperature, dissolved oxygen, turbidity, and oxidation reduction potential (ORP) every five minutes using a water quality meter and a depth to water interface probe that will be decontaminated between wells. Samples will be collected once field parameters have stabilized. Field parameters will be considered stable once three sets of measurements are within ±.01 standard units for pH, ±3% for conductivity and temperature, ±10 millivolts for ORP and ±10% for turbidity and dissolved oxygen. Purge rates should be adjusted to keep the drawdown in the well to less than 0.3 feet as practical.

Samples will be collected directly into laboratory supplied jars. After collection all sample jars will be capped and securely tightened and placed in coolers with ice and maintained at 4°C until they are transported to the laboratory.

2.3 Soil Vapor Samples

Soil vapor samples will be collected over an eight hour duration utilizing 6-liter summa cans fitted with 8-hour flow regulators. After purging, a soil gas sample will be collected by connecting the tubing to a summa canister. The summa canisters will have been previously decontaminated and certified to be free of VOCs by the laboratory. The summa canister will be prepared by the laboratory so that the sample vessel is under a high vacuum of approximately 26 inches of mercury. A grab sample from each soil gas probe will be collected by opening the canister valve and the vacuum will "pull" the sample into the canister. Each soil gas sample will be analyzed for VOCs by EPA Method TO-15.

At least three volumes of air will be purged from each sampling point at a rate of less than .2 liters per minute prior to sample collection. Purged soil vapor will be screened with a PID.

2.4 Field Equipment Calibration

Field equipment will be calibrated daily prior to use. Equipment will be calibrated in accordance with manufacturers' specifications. Equipment calibrations will be recorded in the field logbook.

2.5 Decontamination Procedures

Sampling equipment that will be reused during the RI will be decontaminated prior to each use. The following decontamination procedures will be performed:

- Use laboratory grade glassware detergent and tap water scrub to remove visual contamination
- Generous tap water rinse
- Distilled water rinse

2.6 PFAS Sample Collection

Soil and groundwater samples collected will be analyzed for per- and polyfluoroalkyl substances (PFAS) in accordance with the NYSDEC guidance Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs (January 2021).

The following special considerations will apply during collection of samples to be analyzed for PFAS:

- Field equipment will not contain Teflon
- Only clean cotton or synthetic clothes will be worn. No Gore-Tex or Tyvek will be worn.
- Moisturizers or hand creams will not be applied on the day of sampling. No sunblock or insect repellant will be used.
- All sampling material will be made from stainless steel, HDPE, acetate, silicon or polypropylene
- Labels will be printed and applied to sample containers before going to the field.
- No waterproof field books will be used
- No plastic clipboards, binders or spiral hard cover notebooks will be used
- No adhesives will be used
- No sharpies or permanent markers will be used, ball point pens are acceptable
- Aluminum foil will not be used
- Laboratory supplied PFAS-free water will be used for trip, field and equipment blanks
- PFAS samples will be kept in a cooler separate from other samples
- Coolers will be filled only with regular ice

2.6.1 PFAS Target Analyte List

DER has developed a PFAS target analyte list consisting of 21 compounds. At a minimum the laboratory will report the following PFAS compounds:

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonates	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluoroalkyl carboxylates	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUA/PFUdA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTriA/PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTA/PFTeDA	376-06-7
Fluorinated Telomer Sulfonates	6:2 Fluorotelomer sulfonate	6:2 FTS	27619-97-2
	8:2 Fluorotelomer sulfonate	8:2 FTS	39108-34-4
Perfluorooctane-sulfonamides	Perfluroroctanesulfonamide	FOSA	754-91-6
Perfluorooctane-sulfonamidoacetic acids	N-methyl perfluorooctanesulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethyl perfluorooctanesulfonamidoacetic acid	N-EtFOSAA	2991-50-6

3.0 SAMPLE HANDLING AND ANALYSIS

To ensure quality data acquisition and collection of representative samples, procedures will be implemented to minimize sample degradation or contamination. These include procedures for preservation of the samples, as well as sample packaging, shipping procedures, and quality assurance/quality control.

All information relating to field sampling must be recorded in a bound logbook designated to this project with numbered pages. This will include data transcribed on sample labels and COC forms as a check on sample identification. The following entries will be made in the logbook: daily weather conditions, general observations, preservation, sample collector's name, date, time, sample code, sample type, sample treatment and a description of the sampling location. Site photographs to document field sampling events.

3.1 Sample Custody Documentation

The purpose of documenting sample custody is to ensure that the integrity and handling of the samples is not subject to question. Sample custody will be maintained from the point of sampling through the analysis (and return of unused sample portion, if applicable).

Each individual collecting a sample is personally responsible for the care and custody of the samples. All sample labels should be pre-printed or filled out using waterproof ink. The following information will be shown on labels:

- Sample number
- Name of collector
- Date and time of collection
- Place of collection
- Preservation method
- Type of analysis

The COC form will be completed by field personnel and accompany every sample shipment to document sample possession from the time of collection until the sample has been received by the laboratory. The COC form includes the following information:

- Laboratory that will perform the analysis;
- Names of the samplers;
- Sample I.D. No.;
- Date and time of sample collection;
- Sample matrix or source, i.e., soil;
- Sample location or method;
- Whether the sample has been filtered, fixed or preserved;
- Number of sample containers;
- Type of analysis including EPA method number, where appropriate;
- Project name and number;
- Name of the person to whom the results should be addressed;
- Name of the person/company to whom the invoice will be addressed;
- Signature(s) of the samples;
- Signature(s) of anyone who had custody of the samples, i.e., delivered the samples; and
- Date and time that sample custody was relinquished by AES and the sample was received by the laboratory.

All samples being shipped offsite for analysis must be accompanied by a properly completed chain of custody form. The sample numbers will be listed on the chain of custody form. When transferring the possession of samples, individuals relinquishing and receiving will sign, date, and note the time on the record. This record documents transfer of custody of samples from the sampler to another person and/or to/from a secure storage area and/or to the shipper, and/or to the laboratory.

Samples will be packaged for shipment and dispatched to the appropriate laboratory for analysis with a separate signed custody record enclosed in each sample box or cooler. Shipping containers will be locked and/or secured with strapping tape in at least two locations for shipment to the laboratory.

3.2 Sample Shipment

Soil and groundwater sample containers will be placed in coolers. Ice stored in sealed bags will be placed around sample containers and cushioning material will be placed around the containers if necessary. Coolers will be taped closed. All samples will be picked up by a Phoenix Environmental Laboratory courier within 24 hours of collection and transported to their Manchester, Connecticut lab in a cooler packed with ice in order to maintain samples at a temperature of 4° C.

3.3 Laboratory Analysis

Requirements for sample containers, preservation and holding times are summarized in tables shown below. Phoenix Environmental Laboratories (NYSDOH ELAP # 11301) is proposed to perform analysis of samples collected during the RI.

SOIL ANALYTICAL METHODS

Analyte/Analyte Group	Matrix	Method/SOP	Container(s) (number, size & type per sample)	Preservation	Holding Time	Estimated Number of Samples to be Collected
TAL Metals	Soil	USEPA 6010D	1x4 oz, glass	Cool ≤ 4◦C	180 days	30
Mercury	Soil	USEPA 7471B	1x4 oz, glass	Cool ≤ 4◦C	28 days	30
TCL VOCs	Soil	USEPA 8260C	3 x 40 ml VOA, glass vial	1 x Methanol 3 x DI H_2O Cool ≤ 4◦C	14 days	30
TCL SVOCs	Soil	USEPA 8270D	1x4 oz, glass	Cool ≤ 4◦C	40 days	30
PCBs	Soil	USEPA 8082A	1x4 oz, glass	Cool ≤ 4◦C	40 days	30
Cyanide	Soil	USEPA 9010C/9012B	1x4 oz, glass	Cool ≤ 4◦C	14 days	30
Cr+6	Soil	USEPA 7196A	1x4 oz, glass	Cool ≤ 4◦C	30 days	30
Pesticides	Soil	USEPA 8081B	1x4 oz, glass	Cool ≤ 4◦C	40 days	30
PFAS	Soil	USEPA 537 (modified)	1x8 oz, glass	Cool ≤ 4◦C	28 days	30
1,4- dioxane*	Soil	USEPA 8270 (SIM)	1x4oz, glass	Cool ≤ 4◦C	40 days	30

*SIM Mode only necessary if USEPA 8260 analysis cannot meet a MDL of 0.1 mg/kg

SOIL VAPOR ANALYTICAL METHODS

Analyte/Analyte Group	Matrix	Method/SOP	Container(s) (number, size & type per sample)	Preservation	Holding Time	Estimated Number of Samples to be Collected
VOCs	Soil Vapor	USEPA TO-15	2.7L/6L SUMMA Canister	None	30 days	5

GROUNDWATER ANALYTICAL METHODS

Analyte/Analyte Group	Matrix	Method/SOP	Container(s) (number, size & type per sample)	Preservation	Holding Time	Estimated Number of Samples to be Collected
Metals	Water	USEPA 6020B	1 x 250 ml plastic	HNO3 Cool ≤ 4◦C	180 days	6
Mercury	Water	USEPA 7470A	1 x 250 ml plastic	HNO3 Cool ≤ 4◦C	28 days	6
VOCs	Water	USEPA 8260C	3 x 40 ml VOA Vials	HCl Cool ≤ 4◦C	14 days	6
SVOCs	Water	USEPA 8270D	2 x 250 ml, amber glass	Cool ≤ 4◦C	40 days	6
PCBs	Water	USEPA 8082A	2 x 120 ml, amber glass	Cool ≤ 4◦C	40 days	6
Pesticides	Water	USEPA 8081B	2 x 120 ml, amber glass	Cool ≤ 4◦C	40 days	6
PFAS	Water	USEPA 537 (modified)	4 x 250 ml HDPE, unlined cap	Trizma Cool ≤ 4◦C	28 days	6
1,4-dioxane*	Water	USEPA 8270D SIM Mode	2 x 250 ml , glass	Cool ≤ 4◦C	40 days	6

*SIM Mode to be used to meet required detection limit of 0.35 ug/l

3.4 Field/Laboratory Quality Assurance/Quality Control

The primary DQO of the remedial investigation soil sampling, soil vapor and groundwater sampling is that data be accurate and precise and, hence, representative of the actual site conditions. Accuracy refers to the ability of the laboratory to obtain a true value (i.e., compared to a standard) and is assessed through the use of laboratory quality control (QC) samples, including laboratory control samples and matrix spike samples, as well as through the use of surrogates, which are compounds not typically found in the environment that are injected into the samples prior to analysis. Precision refers to the ability to replicate a value and is assessed through both field and laboratory duplicate samples.

Sensitivity is also a critical issue in generating representative data. Laboratory equipment must be of sufficient sensitivity to detect target compounds and analytes at levels below NYSDEC standards and guidelines whenever possible. Equipment sensitivity can be decreased by field or laboratory contamination of samples and by sample matrix effects. Assessment of instrument sensitivity is performed through the analysis of reagent blanks, near-detection-limit standards, and response factors. Potential field and/or laboratory contamination is assessed through use of trip blanks, method blanks, and equipment rinse blanks (also called "field blanks").

The following QC samples will be collected during the sampling events:

- Blind duplicates – one per 20 environmental samples for each matrix sampled
- Matrix Spike/Matrix Spike Duplicates (MS/MSD) – one per 20 environmental samples for each matrix sampled
- Equipment Blank – one per day for each matrix sampled
- Field Blank – one per day when PFAS samples are collected
- Trip Blank – one per day

All analyses will be performed in accordance with the July 2005 NYSDEC ASP using USEPA SW-846 methods. All remedial investigation analytical data will be reported in NYSDEC ASP Category B deliverables.

4.0 QA/QC OBJECTIVES FOR DATA MEASUREMENT

In cases where NYSDOH ELAP Certification exists for a specific group or category of parameters, the laboratories performing analysis in connection with this project will have appropriate NYSDOH ELAP Certification. Analytical Service Protocol (ASP, June 2000) Category B deliverables are required for all samples.

Detection limits set by NYSDEC-ASP will be used for all sample analyses unless otherwise noted. If NYSDEC-ASP-dictated detection limits prove insufficient to assess project goals (i.e., comparison to drinking water standards or attainment of Applicable or Relevant and Appropriate Requirements [ARARs]), then ASP Special Analytical Services (SAS) or other appropriate methods will be utilized.

The quality assurance/quality control objectives for all measurement data include completeness, representativeness, comparability, precision and accuracy.

4.1 Completeness

The analyses performed must be appropriate and inclusive. The parameters selected for analysis are chosen to meet the objectives of the study.

Completeness of the analyses will be assessed by comparing the number of parameters intended to be analyzed with the number of parameters successfully determined and validated. Data must meet QC acceptance criteria for 100 percent or more of requested determinations.

4.2 Representativeness

Samples must be taken of the population and, where appropriate, the population will be characterized statistically to express the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process, or environmental condition.

Non-dedicated sampling devices will be cleaned between sampling points by washing and rinsing with pesticide-grade methanol, followed by a thorough rinse with distilled water. Two types of blank samples will accompany each sample set where Target Compound List (TCL) volatiles are to be analyzed (water matrix only). A trip blank, consisting of a 40 ml VOA vial of organic-free water prepared by the laboratory, will accompany each set of sample bottles from the laboratory to the field and back. This bottle will remain sealed throughout the shipment and sampling process. This blank will be analyzed for TCL volatile organic compounds along with the groundwater samples to ensure that contamination with TCL volatile compounds has not occurred during the bottle preparation, shipment and sampling phase of the project. In order to check for contaminant carryover when non-dedicated sampling equipment is used, a rinsate blank will be submitted to the laboratory. This blank will also be analyzed for TCL volatile organic compounds.

The TCL compounds are identified in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program dated 10/2016 or as periodically updated.

The analysis results obtained from the determination of identical parameters in field duplicate samples can be used to further assess the representativeness of the sample data.

4.3 Comparability

Consistency in the acquisition, preparation, handling and analysis of samples is necessary in order for the results to be compared where appropriate.

Additionally, the results obtained from analyses of the samples will be compared with the results obtained in previous studies, if available.

To ensure the comparability of analytical results with those obtained in previous or future testing, all samples will be analyzed by NYSDEC-approved methods. The NYSDEC-ASP mandated holding times for various analyses will be strictly adhered to.

4.4 Precision and Accuracy

The validity of the data produced will be assessed for precision and accuracy. Analytical methods which will be used include gas chromatography/mass spectrometry (GC/MS), gas chromatography (GC), colorimetry, atomic spectroscopy, gravimetric and titrametric techniques. The following outlines the procedures for evaluating precision and accuracy, routine monitoring procedures, and corrective actions to maintain analytical quality control. All data evaluations will be consistent with NYSDEC-ASP procedures (June 2000). Data will be 100 percent compliant with NYSDEC-ASP requirements.

The number of duplicate, spiked and blank samples analyzed will a minimum of 1 duplicate for every 20 samples per each medium of groundwater and soil. The inclusion and frequency of analysis of field blanks will be on the order of one per every 20 samples (soil) for the aqueous matrix field blanks will be collected at a frequency of one per day. Samples to be analyzed for volatile organic compounds will be accompanied by a trip blank for each shipment and field blanks (water matrix) or field blanks (soil).

Quality assurance audit samples will be prepared and submitted by the laboratory QA manager for each analytical procedure used. The degree of accuracy and the recovery of analyte to be expected for the analysis of QA samples and spiked samples is dependent upon the matrix, method of analysis, and compound or element being determined.

The concentration of the analyte relative to the detection limit is also a major factor in determining the accuracy of the measurement.

The lower end of the analytical range for most analyses is generally accepted to be five times the detection limit. At or above this level, the determination and spike recoveries for metals in water samples will be expected to range from 75 to 125 percent. The recovery of organic surrogate compounds and matrix spiking compounds determined by GC/MS will be compared to the guidelines for recovery of individual compounds as established by the United States Environmental Protection Agency (USEPA) Contract Laboratory Program dated 7/85 or as periodically updated. The quality of results obtained for inorganic ion and demand parameters will be assessed by comparison of QC data with laboratory control charts for each test.

5.0 DATA USABILITY AND VALIDATION

The main purpose of the data is for use in defining the extent of contamination at the site, to allow for evaluation of potential human health and ecological exposure assessments and to support remedial action decisions. In order to achieve this, data usability will be performed as described below.

Data Usability and Validation Requirements

Data usability and validation are performed on analytical data sets primarily to confirm that sampling and chain-of-custody documentation are complete, sample IDs may be tied to specific sampling locations, samples were analyzed within required holding times and analyses are reported in conformance with NYSDEC, Category B data deliverable requirements as applicable to the methods utilized.

Independent third-party data validation will be performed on 5% of the sample data or on one sample from each sample delivery group (SDG) whichever is greater. New Environmental Horizons, Inc. (NEH) of Skillman, New Jersey will serve as the independent third-party data validator for the project.

Review of Field Data Package

The field data package will be reviewed by the project QA officer and Project Manager for completeness and accuracy. The AES Project Manager will check field logbooks weekly to ensure that they are properly maintained and updated. If not, corrective action will be taken immediately. Data validation checklists will be used as guides in evaluating sample collection, field records and analytical performance. The field data package will include all field records and measurements developed by the sampling team. The field data package validation procedure will consist of:

- A review of field data contained in sampling logs for completeness.
- A verification that equipment blanks and field blanks were properly prepared, identified and analyzed.
- A check on field measured parameters to ensure proper equipment calibration.
- A review of COC forms for proper completion, signatures of field personnel and the laboratory sample custodian dates.

APPENDIX A
RESUMES

BRIAN T. PENDERGAST
PRESIDENT

FIELDS OF EXPERTISE:

Mr. Pendergast conducts prepurchase environmental due diligence audits for international and domestic clients and prepares field sampling plans, quality assurance/quality control programs, health and safety plans, and closure reports to comply with federal, state and local regulations at industrial and commercial sites. He conducts Phase I and Phase II environmental assessments at various commercial properties, evaluating ambient air, indoor air quality, soil gas, soil and groundwater contamination. Mr. Pendergast supervises field investigations, subcontracted services, sampling programs, and asbestos remediation. He conducts remedial investigations and performs health and safety oversight at hazardous and construction sites. Mr. Pendergast has over twenty five years experience working in the environmental remediation industry.

REGISTRATIONS:

OSHA 40 Hr. HAZWOPER
OSHA 30-Hour and 10-Hour Construction Site Safety Training
OSHA 30-Hour General Industry Safety Training
OSHA 8-Hour Supervisor Training
OSHA Permit Required Confined Space Entry Attendant
NYCDOB Site Safety Manager 40 Hour Training
NYCDOB Site Safety Course 7 Hour Training
NYSDOL Asbestos Inspector
NYSDOL Asbestos Project Monitor
NYSDOL Air Sampling Technician

EDUCATION:

B.S., Physics, State University of New York (SUNY) at Stony Brook, 1987
M.S., Environmental Science/Waste Mgmt., SUNY at Stony Brook, (pending)

PROFESSIONAL SUMMARY:

Mr. Pendergast formerly served as the New York based Regional Account Manager of the Strategic Environmental Division of Vertex Engineering Services, Inc. from 1998 through 2003, Vice President of Gannett Fleming Engineers and Planners and Eder Associates Consulting Engineers, P.C. from 1988 through 1998, and Hydrologic Technician for the United States Geological Survey from 1987 through 1988. His responsibilities included:

- Health and Safety Officer at National Presto and Preferred Plating Corp. USEPA Superfund sites.
- Managing Federal Superfund Sites and NYSDEC remedial projects.
- Obtaining Beneficial Use Determinations from the NYSDEC
- Attending project meetings related to environmental issues
- Approval of subcontractors invoices
- Preparing environmental claims for the NYCDEP
- Assisting with soil characterization disputes, securing waste disposal approvals

- Providing OSHA HAZWOPER Training
- Assisting with health and safety issues and providing Health & Safety oversight pursuant to OSHA regulations and site specific requirements

SELECTED PROJECT EXPERIENCE:

- Environmental Project Manager at Ferry Point Golf Course, a 192-acre tournament quality golf course being constructed on a former municipal landfill, managed by New York City Department of Parks & Recreation and located at the foot of the Whitestone Bridge in the Bronx from 2009 through 2014. Supervised NYSDEC Part 360 monitoring including biweekly landfill gas monitoring of fifty-six (56) methane monitoring wells and points, biweekly Special Conditions landfill gas monitoring of locations frequently exceeding site specific action levels and monthly groundwater monitoring of twenty five (25) piezometers and fulfilled weekly reporting requirements. Managed soil sampling of cover and shaping material to be imported to the site per Part 360 requirements and conducted soil sampling of municipal solid waste to for waste characterization purposes. Provided health and safety oversight, prepared and implemented a HASP for the site and conducted air monitoring during site excavation by the city's contractor.

- Project Scientist for New York City Department of Environmental Protection. Managed and performed oversight for hazardous materials survey including lead paint, asbestos and PCB sampling of Hunts Point Food market pumping station in the Bronx; Goldwater Hospital Pumping Station, Roosevelt Island; Coler Hospital Pumping Station, Roosevelt Island; and Roosevelt Island Main Pumping Station, Roosevelt Island. Prepared hazardous material survey report.

- Managed the investigation of municipal pumping stations for the presence of hazardous materials and environmental concerns, for the Cannon Avenue Pumping Station, New York. Prepared Hazardous Materials Survey report, which included field investigation results, laboratory data and recommendations. Addressed a range of environmental concerns including asbestos, lead based paints, PCB oil and light ballasts, mercury lighting, and other hazardous building materials, prepared confined space work plan.

- Managed a subsurface investigation and collected approximately 1,100 soil samples to classify in-situ soils using chemical analysis for waste characterization to support the Flushing Bay CSO Retention Facility Project. Developed field sampling plan coordinated laboratory, drilling and Geoprobe contractor efforts. Managed Health and Safety and Confined Space Training Program for all engineers and construction crews working on the project designed to improve the capacity of municipal sewers. Provided daily permitting of confined spaces and continuous air monitoring for carbon monoxide, hydrogen sulfide, explosive gases, and oxygen. Prepared daily reports to the resident engineer used to evaluate confined space air quality and worker exposure.

- Supervised subsurface investigation at a major construction site to classify in-situ soils based on chemical analysis and physical characteristics. Assisted contractor and city's consultant in negotiating alternate disposal standards for excavated materials. Negotiated with NYSDEC to determine appropriate disposal sites and saved significant disposal fees. Supervised gas detection services. Supervised staff with the monitoring of methane, hydrogen sulfide, carbon monoxide, and oxygen concentrations to support the confined space/sewer entry work at the project. Employed engineering controls to establish safe working conditions and minimize

downtime based on Eder Associates continuous monitoring results. Prepared a Soil Excavation Plan based on the in-situ soil characterization to minimize disposal costs by accurately defining the quantity and extent of contaminated soils in response to the City's concern that contaminated soil was loaded directly rather than stockpiled for disposal to minimize additional handling and cross-contamination. Directed canvass of disposal facilities approved to receive each category of soil (industrial waste, contaminated soil, and hazardous waste), excavated from the project site. Developed strategy to limit soil disposal costs by evaluating disposal alternatives.

- Managed large scale pump and yield tests at a landfill to determine the hydraulic properties of the refuse as a way to determine the performance characteristics and optimum pumping rates for leachate level measurements in recovery wells and in adjacent observation wells.

LOUIS G. SCHWARTZ, JR., P.E.
NEW YORK P.E. LICENSE 77006

Mr. Schwartz has served as Principal of Tiderunner Engineering and Design, PC since 2003. He has more than thirty years experience in project management, inspection, remediation and design. He has worked on the design and layout of large roadway drainage projects, landfill remediation and site work. He has also prepared traffic impact studies, zoning studies and parking designs. Mr. Schwartz has served as Project Engineer on Suffolk County Water Authority (SCWA) projects and Metropolitan Transit Authority (MTA) projects.

Prior to serving as Principal of Tiderunner, Mr. Schwartz worked for Schneider Engineering for ten years as a Project Engineer where he worked on the design and layout of large roadway drainage projects, landfills, and site work. He also prepared traffic impact studies, zoning studies and parking designs. His work with the firm also included highway inspection for local municipalities assuring compliance to plans and specifications.

Prior to working for Schneider Engineering, Mr. Schwartz was employed by Dvirka & Bartilucci Consulting Engineers as a Staff Engineer. In that capacity, he worked on the design of municipal drainage projects, the design and repair of streets, several studies involving the removal of lead and copper in water supply systems and inspection of municipal sanitary sewer installations. He also served as Assistant Resident Engineer for an EPA Superfund landfill closure project at the North Sea landfill. In his work, Mr. Schwartz adhered to plans and specifications to comply with state and local procedures.

Mr. Schwartz was employed by Balcor Property Management in Atlanta, Georgia as a Construction Engineer. He was responsible for the repair and maintenance of twenty-one apartment complexes in the southeast United States. His duties included preparation of capital repair budgets, managing schedules and emergency repair projects, coordination of company personnel and contractors work, design of repairs, structural inspections and preparation of reports and contract documents.

For two years he worked for Louis Schwartz Development Corporation, as a Project Engineer. His duties included managing industrial and commercial building construction.

Finally for four years he served as a Division Officer in the United States Navy. He served onboard the guided missile cruiser USS Horne (CG-30), where he was a Gunnery and Missile Officer. His duties included maintenance and repair of analog and digital electronic systems, sophisticated hydraulic systems and explosives. He also designed and managed structural repairs made during a major overhall.

EDUCATION

B.S. Civil Engineering Northwestern University 1985

Naval Surface Warfare Officers School

Naval Guided Missile School

LICENSES

New York State P.E. License 77006

PRIOR EXPERT TESTIMONY

- Suffolk County Supreme Court
- Nassau County Supreme Court
- Village of Garden City
- Village of Westhampton Beach
- Village of Southampton
- Town of Brookhaven
- Town of Hempstead
- Town of Islip
- Town of North Hempstead
- Town of Southampton

APPENDIX B:
LABORATORY QUALIFICATIONS
AND CERTIFFICATION

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

STATEMENT OF QUALIFICATIONS

Phoenix Environmental Laboratories, Inc. is dedicated to accurate analysis, quality data deliverables, rapid turnaround, and consistent performance. We are NELAC accredited and certified in all of New England, NY, NJ, and PA. We strive to meet the needs of our clients and pride ourselves in our ability to remain progressive and forward thinking.







PHOENIX ENVIRONMENTAL LABORATORIES, INC.

587 East Middle Turnpike
Manchester, CT 06040
www.phoenixlabs.com

Toll Free: 800-827-5426
Phone: 860-645-1102
Fax: 860-645-0823

ACCREDITED IN ACCORDANCE WITH nelac

Dependable. Accurate. Quality-focused.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Phyllis Shiller
Laboratory Director

Responsibilities:
Technical Director of Laboratory Operations and Services. Manages laboratory personnel and staffing. Responsible for laboratory scheduling and maintenance of high sample throughput. Provides client interface and management of special projects, technical issues and regulatory matters. Works with QA/QC Manager to ensure all aspects of corporate quality control program are strictly adhered to.

Education:
University of Rhode Island B.S. Chemistry, 1986

Experience:
Twenty-five years of environmental laboratory experience, including positions as QA/QC Director, Inorganic, ICP/GFAA Specialist, Inorganic Manager of a large (CLP) laboratory, Operations Manager, and Laboratory Director.

Bobbi Aloisa
Vice President/Director of Client Services

Responsibilities:
Management of Client Services Operation. Provides client interface with laboratory. Responsible for scheduling report deadlines with the client. Responsible for the generation of reports including progress reports, final reports, and electronic deliverables. Provides second level of review for all reports. Provides immediate review of incoming projects for completeness. Manages program that furthers the laboratory's ability to achieve consistent high levels of performance and quality.

Education:
Manchester Community Technical College A.S. Science, 1994

Experience:
Eighteen years of environmental laboratory experience.

Greg Lawrence
Assistant Laboratory Director

Responsibilities:
Reviewing analytical reports for completeness and conformance with applicable QA/QC requirements, consulting with clients in technical matters and regulatory help. Setting up new procedures. Assisting analysts with specific QC projects.

Education:
University of Hartford, Hartford, CT, Masters Business Admin., 1988
Keene State College, Keene, NH, B.S. Chemistry, 1982

Experience:
Thirty years of environmental laboratory experience, including the position of Laboratory Director since 1985. Background in Organic Instrumentation, AA Spectrometry and Quality Control.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Kathleen Cressia
QA/QC Officer/Microbiology Laboratory Director

Education:
Western Connecticut State University, Danbury, CT, B.A. Earth Science/Biology, 1985
Experience:
Twenty-five years of environmental laboratory experience, including positions as Laboratory Director, Laboratory Operations Manager, QA/QC Manager, Director of Microbiology, Inorganic Manager, and Wet Chemistry Section Leader for a CLP Laboratory.

Raman Makol
Organics Department Manager/Team Leader
Education:
Guru Nanak Dev University, India, M.S. Chemistry, 1986
Guru Nanak Dev University, India, B.S., Chemistry, 1984
Experience:
Twenty-one years of analytical and environmental laboratory experience as an analyst and R&D Specialist.

Keith Aloisa
Organics Department Manager/Team Leader
Education:
Quinnipiac College, Hamden, CT, B.S. Chemistry, 1993
Experience:
Seventeen years of experience in the environmental laboratory field including Organic manager and QA Specialist.

Harry Mullin
GC/MS Analyst
Education:
Providence College, Providence, RI, B.S. Biology, 1986
Experience:
Twenty-five years experience in the environmental laboratory field including Organic Laboratory Manager.

Damien Drobinski
GC/MS Analyst

Education:
Central Connecticut State University, New Britain, CT, B.S. Biology, Chemistry minor, 2001
Experience:
Ten years experience in the environmental laboratory field.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Johanna Harrington
GC Analyst

Education:
University of Connecticut, B.S. Biology, 1996
Experience:
Fourteen years of environmental laboratory experience.

Michael Hahn
GC Analyst
Education:
University of Connecticut- Biological Sciences
Embry-Riddle Aeronautical University- Avionics Engineering
Experience:
Twenty-one years of environmental laboratory experience.

Jeffery Bucko
GC Analyst

Education:
Eastern Connecticut State University, B.A. History, 1991
Experience:
Seventeen years experience in the analytical laboratory field.

Mark Rochette
Laboratory Analyst

Education:
Eastern Connecticut State University, B.S. Earth Science 1992
Experience:
Twelve years of environmental laboratory experience.

Dina Montagna
Sample Prep Day Supervisor

Education:
Springfield College, Springfield, MA, B.S. Biology/Chemistry, 1999
Experience:
Twelve years of environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Tara Banning
Sample Prep Evening Supervisor

Education:
University of Connecticut, B.S. Biology, 2007
Experience:
Three years of environmental laboratory experience.

Leanne Tweedie
Sample Prep Analyst

Education:
Eastern Connecticut State University. Currently attending.
Experience:
Seven years of environmental laboratory experience

Kate Dunfield
Sample Prep Analyst

Education:
Central Connecticut State University, B.S. Biology, 2005
Experience:
Five years of environmental laboratory experience.

Anvarhusen Sheikh
Sample Prep Analyst

Education:
Polytechnic Institute, Valsad Gujarat India, A.S. Chemical Engineering, 1983
Experience:
Eleven years of environmental laboratory experience

Jonathon Carlson
Sample Prep Analyst

Education:
Western Connecticut State University, B.S. Meteorology, 2003
Experience:
Eight years environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Ryan Zannotti
Sample Prep Analyst

Education:
University of Connecticut, B.S. Natural Resource Management/Engineering 2002
Experience:
Four years of environmental laboratory experience.

Susan Nevins
Sample Prep Analyst

Experience:
Eight years of environmental laboratory experience.

Dustin Harrison
Sample Prep Analyst

Experience:
Eight years of environmental laboratory experience.

Veronica Widener
Sample Prep Analyst

Education:
Middlesex Community College, Middletown, CT, A.S. in Biotechnology June 2011
Experience:
Two years of environmental laboratory experience.

Lauren Atwater
Sample Prep Analyst

Education:
Baypath College, Longmeadow, MA, B.S. Forensic Science 2010, M.S. Forensic Science 2012
Experience:
Less than one year environmental laboratory experience.

Teddy Amoaning
Sample Prep Analyst

Education:
University of Connecticut, Storrs, CT, B. A. Environmental Management and Science 2011
Experience:
Less than one year environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Thomas Cowles
Sample Prep Analyst

Education:
University of Connecticut, Storrs, CT, Currently Attending
Experience:
Less than one year environmental laboratory experience.

Emily Kolominskaya
ICP Analyst

Education:
Pharmaceutical College, Zhitomir, Ukraine, Associates Degree in Pharmacology, 1978
Experience:
Thirty-one years of experience in the environmental laboratory field.

Richard E. Schweitzer
GFAA Analyst

Experience:
Twenty-four years of experience in analytical and environmental laboratories. Twenty-one years metals analyses experience.

Tina Hall
ICP/GFAA Analyst

Education:
Hood College, Fredrick, MD, B.A. Biology 1995
Experience:
Fourteen years of environmental laboratory experience.

Rashmi Makol
Microbiology Analyst
Team Leader

Education:
Kurukeshtra University, India, B.S. Chemistry
Experience:
Twelve years of environmental microbiology laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Karl Lamberg
Microbiology/Inorganic Analyst

Education:
University of Hartford, B.A. Biology 2005
Experience:
Seven years of environmental laboratory experience.

Eric Geyer
Inorganic Supervisor

Education:
University of Connecticut, Storrs, CT, B.S. Natural Resources, 1997
Experience:
Fourteen years of environmental laboratory experience.

Kandi Della Bella
Inorganic Analyst

Education:
Saint Joseph College B.S. Natural Science, 1996 M.S. Biology, 2007
Experience:
Four years of environmental laboratory experience.

Joe Lastrina
Inorganic Analyst

Education:
Middlesex Community College, Middletown, CT
Experience:
Thirty-five years of environmental laboratory experience.

Greg Danielewski
Inorganic Analyst

Education:
Capital Community Technical College, Hartford, CT, Assoc. Chemical Engineering Technology, 1993
Experience:
Eighteen years of environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

William McKernan
Inorganic Analyst

Education:
Southern Connecticut State College, B.S. Earth Science 1975, M.S. Earth Science 1980
Experience:
Seven years of environmental laboratory experience.

Cynde Langille
Inorganic Analyst

Education:
Manchester Community College, A.S. Chemistry, 1999
Experience:
Twelve years of environmental laboratory experience.

Laura Kinnon
Inorganic Analyst
Education:
Bridgewater State College, B.S. Chemistry/Geology 2006
Experience:
Ten years of environmental laboratory experience.

Matt Fijolek
Inorganic Analyst

Education:
University of New England, B.S. Marine Biology
Experience:
Six years of environmental laboratory experience.

Brian Sheriden
Inorganic Analyst

Education:
University of Connecticut, B.S. Biology/English, 2001
Experience:
Five years of environmental laboratory experience.

TECHNICAL STAFF EDUCATION AND EXPERIENCE

Jean Rawlings
Inorganic Analyst

Education:
Bucknell University, Lewisburg, PA, B.S. Biology 1995
Experience:
Eight years environmental laboratory experience.

Valerie Rowe
Inorganic Analyst

Education:
New Mexico Institute of Mining and Technology, B.S. Chemistry with Biochemistry option, 2007
Experience:
Five years of environmental laboratory experience.

Eric Werner
Inorganic Analyst

Education:
Central Connecticut State University, B.S. Earth Science 2005
Experience:
Seven years of environmental laboratory experience.

Kelly Grey
Inorganic Analyst

Education:
College of Charleston, Charleston, SC, B. A. Biology 2008
Experience:
Less than one year environmental laboratory experience.

CAPABILITIES AND OBJECTIVES

Phoenix Environmental Laboratories, Inc. is dedicated to accurate analysis, quality data deliverables, rapid turnaround, and consistent performance. Our facility in Manchester, CT is custom-designed for high capacity production utilizing highly automated low detection level instrumentation and a computerized Laboratory Information Management System (LIMS). A highly skilled and experienced technical staff assures our clients of high quality, prompt, and reliable results.

Phoenix provides environmental analysis to a wide range of customers with varied requirements. Phoenix is structured to satisfy customer requirements with a consistent level of performance, including those with special and demanding needs. Phoenix has one of the best records in the northeast of meeting rush turnarounds and consistent delivery of rapid standard turnarounds (five business days). This performance and capacity is achieved by:

- Utilizing instrumentation that provides high sensitivity and low detection levels. Detection levels several times lower than method or regulatory requirements are routinely achieved resulting in improvements in analysis particularly with the samples having difficult matrices. Time spent "peaking" instrumentation and/or rerun of analysis is also minimized.
- Instrumentation and equipment are maintained at a high utilization factor through a comprehensive preventive maintenance program and "quick response action plan" for unscheduled maintenance.
- Duplication of major instrumentation preventing delays due to equipment downtime. Maintenance can be performed as required to maintain optimum performance without affecting turnaround time.
- A continuous program of instrument and equipment purchase and upgrade maintains a 50% plus cushion of analytic production capacity and provides quick response to rush turnarounds, high work loads and completion of large projects on schedule.
- An extended work schedule (6:00 a.m. to 11:00 p.m.) with evening shift operation enables our analysts to initiate 100% of the organic and inorganic prep work on the day samples are received. Sample receiving hours from 7:00 A.M. to 7:00 P.M. guarantee that all rush samples are in process the day received even when received as late as 7:00 p.m.
- The level of automation employed by Phoenix is among the highest of any commercial environmental laboratory. Automated instrumentation and equipment is selected to provide improved consistency, accuracy and dependability of analysis, and helps maintain high capacity, consistent quality and rapid response.
- Our analysts are involved in a scheduled cycle of training and cross training designed to achieve specific quality performance benchmarks. Personnel are hired "ahead of need" to allow for training, orientation, and experience prior to entering the production cycle.

GENERAL TERMS AND CONDITIONS

HOURS OF OPERATION/PRIOR NOTIFICATION

Hours of Operation: Sample receiving hours are 7:00 a.m. to 7:00 p.m. Monday through Friday, and 9:00 a.m. to 1:00 p.m. on Saturday. Laboratory operation hours are 6:00 a.m. to 11:00 p.m. Monday through Friday and a limited Saturday schedule. Prior notification is required for delivery of emergency samples.

SAMPLE PICKUP

Phoenix Environmental Laboratories, Inc. offers courier service throughout our service area of Connecticut, New York, New Jersey, Massachusetts, Rhode Island, Vermont, Maine and New Hampshire. Pickups should be scheduled 24 hours in advance. Please contact Phoenix Client Services for sample pickup or emergency response.

TURNAROUND TIMES

Phoenix Environmental Laboratories, Inc. shall make its best effort at meeting all client specified turnaround times. Phoenix shall not however be liable for late delivery of services except as provided by written agreement prior to sample receipt.

SURCHARGE FOR EXPEDITED WORK

Normal turnaround is 5 working days. Results required in less than five working days are assessed a surcharge for accelerated turnaround. Please contact the Sales Department for available turnaround times and applicable charges.

EXPEDITED WORK/RUSH PROJECTS

A computer generated progress report or verbal results will be made available within the agreed time period with the written report available within (1) day following the progress report. Client requirements for "same day" written reports must be approved prior to sample delivery.

DUE DATE

Due date is defined as the date of analysis completion with verbal or computer generated sample progress reports results available "same day" for expedited rush work. Completed written reports are available by 5 p.m. the following day.

SAMPLE RECEIPT

Samples must be received at Phoenix before 5:00 p.m. to be considered as received on that day. Samples received after 5:00 p.m. shall be considered as having been received on the next working day for purposes of calculating turnaround time. Phoenix Environmental Laboratories, Inc. reserves the right to reject samples deemed unsuitable.

SAMPLE HOLDING TIME/PRESERVATION

Customers must deliver all samples to Phoenix within holding time. In the event that samples are received past the established holding time, the client is either notified prior to analysis or "Received past hold" will be noted on the chain of custody. It is the client's responsibility to ensure that all samples are preserved and delivered in accordance with published protocol.

DOCUMENTATION

All samples submitted to Phoenix Environmental Laboratories, Inc. must be accompanied with a completed Chain-of-Custody form.

SAMPLE DISPOSAL/STORAGE

Phoenix will responsibly dispose of most unused samples, while reserving the right to return unused samples to the client. Please consult our sample custodian for additional information. Sample storage will not extend past 30 days from final report date **except by previous arrangement**.

SUBCONTRACTED SAMPLES

A limited number of analyses are subcontracted to licensed laboratories with which Phoenix maintains a contractual agreement. Subcontracted samples maybe subject to extended turnaround times.

RECORD RETENTION

Phoenix shall retain all pertinent records for a period of five (5) years from sample receipt. There may be a minimal charge for the retrieval of these records from archives, should a client request this service.

INORGANICS

Acidity
Alkalinity
Alkalinity bicarbonate
Alkalinity carbonate
Ammonia
Bromide
BOD-5 & 20 Day
Chloride
Chlorine-Free
Chlorine Residual
COD
Color
Conductance
Cyanide-Total
Cyanide-Amenable
Density
Dissolved Oxygen
Flash Point
Fluoride
Hexavalent Chromium
Hardness
Nitrate
Nitrite
Nitrogen-Organic
Nitrogen-Kjeldahl
Nitrogen-Ammonia



Oil & Grease **1664**
Paint Filter Test
pH
Phenols
Phosphate-Ortho
Salinity
Solids-Dissolved
Solids-Fixed
Solids-Settleable
pH
Phenols
Phosphate-Ortho
Salinity
Solids-Dissolved
Solids-Fixed
Solids-Settleable
Solids-Suspended
Solids-Total
Solids-Volatile
Specific Gravity
Sulfate
Sulfide

METALS

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium-Total
Cobalt
Copper
Gold
Iron
Lead
Manganese
Magnesium
Mercury
Molybdenum
Nickel
Potassium
Selenium
Silicon
Silver
Sodium
Thallium
Tin
Titanium
Tungsten
Vanadium
Zinc
Zirconium
Total RCRA 8 Metals
PP 13 Metals
TAL Metals



Equipment List

Organics GC

(10) Perkin Elmer Autosystem with dual Electron Capture Detectors

(1) Markelov HS 9000 Headspace Analyzer with Perkin Elmer Autosystem with F10

(1) Perkin Elmer Autosystem with Nitrogen Phosphorus Detector

(7) Perkin Elmer Autosystem with Flame Ionization Detectors

(1) Perkin Elmer Autosystem with PID and FID detectors, Tekmar Precept II autosampler and Tekmar 3000 Purge and Trap concentrator

(8) PE Nelson 970 Data Interfaces

(3) PE Nelson 600 Series Link Interfaces

(4) PE Nelson Turbochrom 4.1 Data System

Organics GC/MS

(2) Hewlett Packard 5973 MSD with 6890 GC, Arcon 8100 Autosampler, (2) Tekmar 3000 Purge and Trap concentrators, PT2 switching valve box, HP Chemstation and Enviroquant software

(1) Hewlett Packard 5973 MSD with 6890 GC, Centurion autosampler, Tekmar 3000 Purge and Trap concentrator. HP Chemstation and Enviroquant software

(1) Hewlett Packard 5972 MSD with 5890 GC, Arcon 5100 autosampler, Tekmar 3000 Purge and Trap concentrator, HP Chemstation and Enviroquant software

(1) Hewlett Packard 5973 MSD with 6890 GC, Centurion autosampler, (2) Encon Purge and Trap concentrators

(2) Hewlett Packard 5972 MSD with 5890 GC, 7673 Injector, HP Chemstation and Enviroquant software.

(3) Agilent 5973 MSD with 6890 GC, 7683 injector, HP Chemstation and Enviroquant software

(1) Agilent 5975 MSD with GC, 7683B injector, HP Chemstation and Enviroquant software

(1)Hewlett Packard 5973 MSD with 6890 GC, Arcon 8100 autosampler, (2) EST Encon Purge and Trap concentrators, PT2 switching valve box

Organics HPLC

(2) Hewlett Packard 1090 Series II HPLC with Diode Array Detectors, (DAD), HP programmable autosampler,



Pickering 8100 Post Column Derivatization unit, and HP Fluorescence Detector



Air Laboratory

(1) Agilent 5975 with 7890 GC and HP Chemstation

(1) Entech 7100AR Cryogenic concentrator- cold trap dehydration

(1) Entech 7500A minican Autosampler with 9 auxillary positions.

(1) Entech 3100A canister cleaner accompanied with Thermoscience oven

(1) Entech 4600A Dynamic Dilutor

Organics TOC/TOX

(1) GE Sievers InnovOx Lab TOC Analyzer with Sievers 900 Autosampler

(1) Elementar Liqui-TOC Analyzer with 53 position Autosampler

(1) Dohrmann DX-2000 Total Organic Halide (TOX) Analyzer

(1) Dohrmann DX-20 Total Organic Halides (TOX) Analyzer

Metals

(1) Spectro Ciros 37 Channel Simultaneous Axial Plasma ICP Spectrometer with Autosampler and Smart Analyzer software

(1) Spectro Arcos 37 Channel Simultaneous Axial Plasma ICP Spectrometer with Autosampler and Smart Analyzer software

(1) Perkin Elmer AAnalyst 600 Atomic Absorption Spectrophotometer (AA) with graphite furnace, Zeeman background & AS 800 Autosampler

(1) Perkin Elmer 5100 Atomic Absorption Spectrophotometer (AA) with graphite furnace, autosampler, mercury cold vapor, and hydride system

(1) PSA Mercury Fluorescence System with autosampler and mercury cold vapor

Prep Department

(1) Supelco Visirep 24 position Solid Phase Extraction

(48) Liquid/Liquid Extraction Systems

Equipment List

(7) Zymark TurboVap II Automated Sample Concentration Workstations
(2) Precision Scientific 8 Position Water Baths
(1)Vacuum and Pressure Filtration System, 11 positions
(2) Branson DHA1000 Ultrasonic Cleaners
(2) VWR 250D Ultrasonic Cleaners
(12) Millipore Zero Headspace Extraction Chambers
(3) Millipore TCLP Rotary Extractors, 12 positions total
(3) Multi Position TCLP Rotation Extraction Systems
(8) Dionex ASE200 Accelerated Solvent Extractor
(9) Brinkman Manual Soxhlet Extractors- 5 position
(4) Gerhardt Automatic Soxhlet Extractors- 6 position
(3) Environmental Express AutoBlock Digesters, 54 Position
(3) Environmental Express HotBlocks Digesters, 54 Position
(1) IEC Centra-8 Centrifuge



(2) Tekmar TM600- Dual Horn Sonic Disruptors
(5) Metler PB1502 Balances
(1) PlasLabs 863-CG Dessicator
(1) Blue M DC336F Oven
(1) VWR 1300U Oven
(1) GCA/Precision Scientific Gravity Convection Oven
(1) GlasCol 3D Separatory Funnel Shaker, 8 position
(1) GlasCol 3D Separatory Funnel Shaker, 4 position

Wet Lab

(1) Lachat Quikchem 8000 Dual Channel Wet Chem Autoanalyzer with 360 Position Autosampler
(1) Lachat Quikchem 8500 Four Channel Wet Chem Autoanalyzer with 360 Position Autosampler
(1) Spectronic 21D UV/VIS Spectrophotometer
(1) Buck Model 404 Total Petroleum Hydrocarbon IR analyzer
(1) Pall Cascada Ultra Pure DI Water Systems
(2) YSI 33 Salinity, Conductance, Turbidity Meter
(3) Precision 2020 BOD Incubators, High Volume
(1) YSI 52 Oxygen Meter (BOD)
(1) VWR 8000 pH meter
(4) Precision Scientific Pensky-Martens Flash Point Testers
(1) Labline DuoVac 1520 Vacuum Drying Oven
(1) Beckman f 12 Meter (Fluoride/Chloride)
(1) Orion 162 Conductivity Meter
(1) Man-Tech GX271 Liquid Handler (pH, Alkalinity, Conductivity, Turbidity)
(1) Mettler AB104-S Analytical Electronic Balance
(1) Mettler XS-104 Analytical Electronic Balance
(1) SciLab TM1028 Freon Recycling Apparatus
(3) LabCrest Midi Distillation Systems, 10 position
(3) AIM 500 Automated Block Digestors, 28 position
(1) Dionex DX120 Ion Chromatograph with autosampler
(1) Dionex ICS2000 Ion Chromatograph with autosampler
(1) Hitachi U1100 Spectrophotometer
(2) Beckman DU640 Spectrophotometer
(1) Thermolyne 48000 Furnace
(1) Hach COD reactor, 25 position
(3) Horizon SpeedVap II 9000 Solvent Evaporation System
(1) Hach 2100AN Turbidimeter
(1) VWR 750HT Ultrasonic Cleaner
(1) GlasCol 3D Separatory Funnel Shaker, 8 position
(1) CAI SmartBlock 226 COD Digester, 100 position

Microbiology

(1) Baush & Lomb and Spencer Microscope
(3) GCA Precision Coliform Incubator Bath
(1) Precision Gravity Convention Incubator
(1) Market Forge Sterilmatic Autoclave
(1) Vacuum Filtration System, 3 position
(1) Elconap Incubator
(1) Reihert-Juns Quebec Darkfield Colony Counter
(1) Spectroline EA-160 UV light (366 nm)
(1) American UV Company UV box (254 nm)



INTRODUCTION

Phoenix Environmental Laboratories, Inc. is committed to providing the highest quality laboratory data available. All laboratory analyses are performed in full compliance within applicable State or Federal Quality Control guidelines. The Quality Assurance (QA) and Quality Control (QC) program is defined in the Laboratory Quality Assurance Plan and the Laboratory Standard Operating Procedures (SOP) Manual. The Quality Assurance program meets or exceeds EPA recommended guidelines with quality control samples accounting for at least 20% of the total number of samples analyzed. The Quality Assurance Office ensures that facilities, equipment, personnel, testing methods, data and QC procedures are in conformance with the Standard Operating Procedures (SOPs) of Phoenix Environmental. This Office also ensures that QC procedures are applicable with EPA Quality Control guidelines.

Each laboratory project is monitored through application of a Quality Assurance Program, which includes the following elements:

- Centralized Project files
- Written Standard Operating Procedures
- Rigorous Chain-of-Custody procedures
- Documentation of nonconformance events and corrective actions taken
- Periodic inspections of projects in progress
- Frequent equipment calibration and maintenance inspections
- Archiving of project records under controlled access

ASSIGNMENT OF RESPONSIBILITIES

Roles and Responsibilities

The goal of the Quality Assurance Program is to assure that data generated by Phoenix Environmental is of the highest quality available. To reach this goal, the program seeks to develop policies and procedures to monitor, maintain and improve data quality, and to maintain the necessary documentation of laboratory performance. A list of responsibilities is detailed in the next few pages.

Director of Quality Assurance

The Director of Quality Assurance has overall responsibility for the development and administration of the Quality Assurance Program. This effort may be supported by Quality Assurance Specialists. An analytical quality control program is conducted to ensure the production of valid data. The Director of Quality Assurance supervises implementation of the analytical Quality Control Program and interacts with the project staff in determining corrective action procedures.

Other duties include:

- Preparing written documents defining QA/QC Procedures
- Reviewing and approving Standard Operating Procedures

- Maintaining copies of all current procedures
- Scheduling and performance of quality audits
- Employee training in QA/QC techniques
- Maintaining current knowledge of approved methods and other regulatory requirements
- Overseeing interlaboratory and Performance Evaluation testing programs
- Serving as a liaison to regulatory agencies in Quality Assurance matters
- Reviewing Nonconformance Reports and corrective actions to assure that operations have been appropriately corrected
- Informing management of the status of the Quality Assurance Program
- Continually assessing the Quality Assurance Program

The Director of Quality Assurance has the final authority to stop or change any incorrect or improper sampling or analytical procedure to assure data quality.

Quality Assurance Staff

The Quality Assurance Staff has the responsibility and authority to monitor any phase of laboratory operations. Their functions include:

- Preparing and submitting blind QC check samples to the lab and evaluating lab performance
- Checking the outcome of QC Samples to assure that control limits are being met and internal SOPs for control chart analyses are followed
- Performing inspections of lab operations and records to assess compliance with SOPs and contract requirements
- Preparing of reports of lab inspections and data reviews for the Director of Quality Assurance and lab management
- Immediately notifying the Director of quality Assurance of nonconformance events, which have not been resolved.
- Assisting in the preparation of SOPs
- Reviewing and approving performance evaluation sample results prior to submission to regulatory agencies
- Ensuring that all standards are traceable to NBS or EPA provided materials
- Performing duties of the Director of Quality Assurance in the manager's absence

Laboratory Management

The laboratory management has the responsibility for the direction of the laboratory sections to follow the QA/QC program. This obligation is met through the following steps:

- ◊ Recruiting, hiring, and training of suitably qualified personnel
- ◊ Allocation of sufficient resources including staff, time, materials and equipment, to complete required tasks
- ◊ Integration of Quality Control measures into the Job Descriptions of laboratory personnel so that each employee is responsible for the quality of the work they produce
- ◊ Effective response to corrective action requirements identified by Quality Assurance
- ◊ Assignment of Standard Operating Procedure development as required by Quality Assurance
- ◊ Review and approval of SOPs

Laboratory Supervisors

Laboratory Supervisors are an integral part of the implementation of the quality Assurance/Quality Control program. Each Supervisor is responsible for the quality of the data generated by their group. All activities performed in the lab section must comply with the internal Standard Operating Procedures and individual contract requirements. It is the responsibility of the Supervisor to train analytical personnel, prepare and update SOPs for each operation, and instruct analysts to perform QC checks at the appropriate intervals. The Supervisor reviews data and assures that all QC criteria for each data set have been met before releasing results for reporting. Additionally, it is the responsibility of the Supervisor to document nonconformance events and corrective action taken.

Chemists and Lab Technicians

It is the responsibility of the individual analysts to follow the appropriate methods, documenting their activities and results concisely, and implementing the QC checks as required by the contract and/or Phoenix Environmental SOP manual. The analysts are expected to produce data of measurable quality and, therefore, must evaluate the outcome of QC samples as part of the regular analytical procedure. Individual analysts, as the first line of quality control, must identify quality problems and initiate a Nonconformance Report.

COMMUNICATIONS

The Quality Assurance Office communicates with other laboratory sections in two predominant methods, by regular production meetings and by memorandum or report.

Production meetings are held at least weekly between the General Manager, Laboratory Director, Client Services Staff, and the Director of Quality Assurance. In addition to production planning, marketing efforts, and laboratory management issues, Quality Assurance concerns are discussed. This forum provides immediate access to responsible individuals for the resolution of Quality Assurance concerns. Decisions made are documented in memoranda following the meeting.

Reports are issued to document findings of audits, inspections, and data reviews performed by the Quality Assurance Office. Findings and recommendations are then issued to supervisors responsible for the work reviewed. The Supervisor responds to each of the findings and documents corrective actions. The report is then circulated to management for review. Quality Assurance verifies that corrective actions have been implemented and then files the report in Quality Assurance Office files.

Memoranda are generally issued to communicate results of P.E. studies, to document problems brought to the attention of Quality Assurance, and as a form of written communication to keep laboratory staff and management informed of activities related to Quality Assurance.

DOCUMENT CONTROL

Quality Assurance reports are maintained in locked file cabinets which are separate from other study records. Quality Assurance records are often direct and forthright in addressing problems. Allowing these records to become public knowledge would hinder the performance of the Quality Assurance Office. Thus, these records are considered most confidential and are not available for inspection by persons outside the company.

Original copies of Standard Operating Procedure documents are maintained in the Quality Assurance files. Additionally, a historical file of obsolete SOP's is also maintained. Distribution lists of SOP documents are maintained by the Quality Assurance Office.

Document control of the Quality Assurance Program Plan is basically the same as that described for the SOP documentation described above. A current and historical file system, distribution list and limited copies of the document are used in the production of the QAPP to maintain its integrity.

The Quality Assurance Office is also charged with the maintenance of the Methods Library. Methods are obtained by the Quality Assurance Office and the originals maintained on file. Duplicates or copies of these methods are distributed to laboratory management and personnel. A historical file is maintained for methods which have become obsolete, to be used as a reference tool. When new methods are issued, the Quality Assurance Office is responsible for obtaining the new method, distributing it to those who require it, and when required, informing those persons that the new method supersedes an old method.

QUALITY ASSURANCE PROGRAM ASSESSMENT

The Director of Quality Assurance and the staff of the Quality Assurance Office conduct periodic assessments of the total Quality Assurance Program. Based upon these assessments and an annual review of the Quality Assurance Program Plan, an annual written status report of Quality Assurance activities and progress is forwarded to the Laboratory Director. This report is used to define areas of focus for the coming year and will determine changes required in the Quality Assurance Program Plan.

PERSONNEL QUALIFICATIONS

Introduction

Phoenix Environmental Laboratory, Inc. is staffed by individuals with the scientific and technical expertise needed to serve the analytical needs of our clients. These employees have been chosen based upon their education, training and experience to ensure that the employees of Phoenix Environmental can perform their assigned tasks and successfully follow their chosen career paths.

Phoenix Environmental provides its employees with opportunities for continuing education and training so that our employees may grow with the company. This benefits not only employees, but also clients by ensuring accuracy and proficiency on all contracted analyses.

Qualifications

Phoenix Environmental has minimum Education and Experience qualifications for all job functions within the laboratory. In-house training programs and policies augment these basic education and experience requirements by supplying additional information about technical subjects, safety,

corporate policy, quality assurance, and supervisory and manager techniques.

Documentation of personnel qualifications and training is accomplished through the use of a standardized qualification system. For each position, critical training and skills requirements have been identified including: organizational orientation, safety training, quality control procedures training, technical training and analytical skills requirements. The employee must have attended acceptable training seminars or have shown proficiency in each area before the supervisor documents qualification.

Training

It is the policy of Phoenix Environmental that additional education and training is encouraged. To this end, tuition reimbursement may be provided for those individuals who would like to take relevant course work either in or outside of a degree program.

New employees are trained on a one-on-one basis with their supervisor or assigned individual. Until the trainer is convinced of the ability of the new employee, the new employee may not perform analysis on client supplied samples. After initial training, an employee's performance is monitored by his or her supervisor for compliance with quality, production and safety goals.

Training is routinely performed upon the introduction of new instruments into the laboratory. Training is also presented in the form of seminars given to explain new methods, techniques and procedures. These courses generally are given by senior level personnel for the benefit of those with less experience.

QUALITY ASSURANCE AUDIT PROGRAM

Introduction

The Quality Assurance Department is responsible for conducting periodic inspections (audits) of the quality systems, data generation, and support systems of the laboratory. The purpose of the internal audits is to assist management in identifying and correcting deficiencies and to reinforce acceptable practices. This ensures that services meet the requirements of the Laboratory Quality Assurance Program as well as the requirements of the client.

These inspections help to ensure that the policies of the laboratory for production of high quality data are being followed. Policies include laboratory standard operating procedures, instrument procedures, sample preparation procedures, and data review policies. If discrepancies are found, corrective action is taken. Two types of audits are in place: Systems and Performance Audits. Additionally, there are routine data audits, independent audits, and audits for subcontracted services.

System Audits

A Systems Audit is an inspection and review of an entire data-generation and support system. Quality -related activities are reviewed, assessed, and compared against the Quality Assurance Program requirements for compliance. The audit includes the evaluation of personnel, facilities, Standard Operating Procedures (SOPs), and records. Systems Audits generally follow performance audits (usually by state or EPA auditors, required for certification and contract awards) and may be instituted as part of corrective action monitoring programs. These are done at least twice per year.

If deficiencies are observed during a performance audit, the Director of Quality Assurance or his/her designee evaluates the audit report and initiates a follow-up Systems Audit, with emphasis on actions

Assurance Program or have in place an equivalent program of their own. Potential subcontractors are reviewed by the Phoenix Environmental Quality Assurance Office for suitability.

The Quality Assurance office may evaluate the Quality Assurance program of the subcontractor through review of the laboratory's written Quality Assurance Program Plan, the Quality Assurance Project Plan (where applicable), Quality Control SOPs, typical SOPs, and latest applicable USEPA performance evaluation sample results. If PE results are not available for the subcontracted parameters, Phoenix Environmental may submit blind PE samples to the subcontractor. Successful completion is required. An on-site audit of the facility may be performed when deemed necessary by the Director of Quality Assurance.

Nonconformance Event Corrective Action and Documentation

Documentation of analytical problems and corrective action taken is an essential part of the data record for each project. Identification, implementation, and monitoring of the actions that would have prevented the analytical problem provide methods for improving the quality of laboratory performance. A Nonconformance Report has been designed to record problems, corrective actions, impact on analytical results, and suggested preventive actions for the future.

The Nonconformance Report shows complete background information about the event. The Nonconformance Report is initiated by the person experiencing or noticing the discrepancy and completed by his or her supervisor. Copies of the completed reports are distributed to the Laboratory Director, the Client Services Manager, and the Director of Quality Assurance. The Client Services manager reviews the Nonconformance Report and then places a copy of the report into the Project File. If the event has caused any impact on the analytical results, the Client Services Manager meets with the Director of Quality Assurance and then communicates with the client, either personally or through the staff of the Client Services group.

Data Review and Validation

Phoenix Environmental performs data review and validation studies on all data packages generated. Data validation is the process whereby data are accepted or rejected based upon defined criteria. Information concerning the sample history, sample preparation, Quality Control data, and other factors are used in the judgment of the validity of results. Each sample's history, from sample receipt to reporting, must be documented. Steps taken in this documentation are described in the SOPs on chain-of-custody and document control. Dated and signed entries by appropriate personnel on all worksheets and logbooks are required for data validation. One must be able to track the progress of the samples through the laboratory with the use of the sample tracking system. Finally, Quality Control information is judged against set criteria to accept or reject data. Criteria used to accept or reject data are dependent upon the methodology, the client's requirements, and the eventual use of the data. Where applicable, sample flags or qualifier codes are used to qualify data. All data receive a 100% review by either a supervisor or a second analyst of equal or higher experience and responsibility.

Quality Control Samples

Data quality is evaluated by the performance of quality control sample analysis, including:

Method Blanks

Surrogate Spikes

Matrix Spikes and Duplicates

Sample Duplicate Analysis

Laboratory Control Samples (QC's)

Calibration Check Samples

Field Blank Samples

Trip Blank Samples

Storage Blank Samples (if applicable)

The particular types and frequency of QC samples processed with production samples are determined by the requirements of the client. Most common needs are those presented in EPA SW-846, state requirements, project requirements, customer requirements, and those requirements specified in our SOPs.

Information obtained from Quality Control samples listed above is used to assess the quality of the data generated and is useful in identifying problems in the sampling process. It is also useful in identifying situations in the shipment of samples, in the storage of samples, in the analysis of samples, and even helps in identifying problems in the analysis of the samples caused by the samples themselves.

Blind Quality Control Samples

The Quality Assurance Office may formulate blind samples for submission to the laboratory for analysis. The samples are produced by the quality Assurance Office from standard reference materials. Sample sets usually contain blanks and replicates of known concentration. Analysis of the data produced from these sets is used to assess quality of data produced by the laboratory for accuracy.

Quality Control Charts

Phoenix Environmental offers a variety of analytical services using EPA approved methodologies. The QC requirements for accuracy and precision are mandated by the method, the client's needs and the regulatory authority under which the work is being performed. In the October 31, 1984 F.R., it is recommended that the laboratory periodically update these control limits based on historical data. It is the policy of Phoenix Environmental to establish Control Charts for each analysis which will be updated as new data is generated. Warning and control limits are based plus and minus two and three standard deviations from the mean, respectively.

All QC sample results are tabulated immediately following analysis and compared to the contract-mandated, method-mandated, or client-mandated control limits for precision and accuracy. Out-of-control results are cause for immediate generation of a Nonconformance Report and possible re-extraction and/or re-analysis. No outlying data are ever released until the laboratory has verified that unacceptable results are attributable to the sample matrix.

The laboratory has developed QC Log Books for recording of QC data by the analyst immediately after it is acquired. This allows the analyst to ascertain immediately the validity of the QC data and to act, if required, in the event of an out of control situation. QC data are recorded by analytical methodology employed and instrumentation used.

The following information shall be submitted to establish quality assurance criteria with each work order at no extra charge.

STABILITY OF SAMPLES ANALYZED

Date of both sample preparation and analysis are included in the data report.

PERFORMANCE OF ANALYTICAL INSTRUMENTATION

Method reporting limits (detection limits) are included in the data report.

TRIP OR FIELD BLANK

As required, one trip or field blank shall be analyzed for each sampling day with each work order submitted.

ACCURACY AND PRECISION IN ANALYSIS

One sample per analytical batch shall be spiked and run in duplicate. The results shall be reported in the final report upon request of the client.

SURROGATE ANALYSIS

All samples submitted for organic analysis shall be spiked with EPA approved surrogate compounds. The results shall be reported as percent recovery and summarized in the data report.

METHOD BLANKS

Method blanks will be analyzed as per the specific methodologies and reported as part of the final data report.

CERTIFICATION

The report cover letter shall be signed by the project manager and /or laboratory supervisor. All raw data including bench sheets and QA summary forms shall be reviewed and initialed by the analyst and the section supervisor.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Bacteriology	
Coliform, Total / E. coli (Qualitative)	SM 21, 23 9222A,B,C
	SM 20, 21-23 9223B (-04) (Colilert)
E. coli (Enumeration)	SM 21, 23 9222A,B,C
	SM 20, 21-23 9223B (-04) (Colilert)
Enterococci	SM 23 9230D (Enterolert)
Heterotrophic Plate Count	SM 20, 21-23 9215B (-04)
Chlorinated Acids	
2,4,5-TP (Silvex)	EPA 515.3
2,4-D	EPA 515.3
Dalapon	EPA 515.3
Dicamba	EPA 515.3
Dinoseb	EPA 515.3
Pentachlorophenol	EPA 515.3
Picloram	EPA 515.3
Disinfection By-products	
Bromochloroacetic acid	EPA 552.2
Dibromoacetic acid	EPA 552.2
Dichloroacetic acid	EPA 552.2
Monobromoacetic acid	EPA 552.2
Monochloroacetic acid	EPA 552.2
Trichloroacetic acid	EPA 552.2
Fuel Additives	
Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Metals I	
Arsenic, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.5
	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.5
	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4

Serial No.: 62924

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Metals I	
Zinc, Total	EPA 200.8 Rev. 5.4
Metals II	
Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Molybdenum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	SM 19, 21-23 3113B (-04,-10)
	EPA 200.9 Rev. 2.2
	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Metals III	
Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4
Uranium (Mass)	EPA 200.8 Rev. 5.4

Methylcarbamate Pesticides	
3-Hydroxy Carbofuran	EPA 531.2
Aldicarb	EPA 531.2
Aldicarb Sulfone	EPA 531.2
Aldicarb Sulfoxide	EPA 531.2
Carbaryl	EPA 531.2
Carbofuran	EPA 531.2
Methomyl	EPA 531.2
Oxamyl	EPA 531.2
Microextractables	
1,2,3-Trichloropropane, Low Level	EPA 504.1
1,2-Dibromo-3-chloropropane, Low Level	EPA 504.1
1,2-Dibromoethane, Low Level	EPA 504.1
Miscellaneous	
1,4-Dioxane	EPA 522
Benzo(a)pyrene	EPA 525.3
Bis(2-ethylhexyl) phthalate	EPA 525.3
Di (2-ethylhexyl) adipate	EPA 525.3
Diquat	EPA 549.2
Glyphosate	EPA 547
Hexachlorobenzene	EPA 525.3
Hexachlorocyclopentadiene	EPA 525.3
Odor	SM 21-23 2150 B (-97)
Organic Carbon, Dissolved	SM 21-23 5310B (-00)
Organic Carbon, Total	SM 21-23 5310B (-00)
Surfactant (MBAS)	SM 21-23 5540C (-00)

Serial No.: 62924

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Miscellaneous	
Turbidity	SM 21-23 2130 B (-01)
UV 254	SM 21-23 5910B (-00,-11)
Non-Metals	
Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
	SM 21-22 4500-Cl- E (-97)
Color	SM 21-23 2120B (-01)
Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 21-23 4500-F C (-97)
Nitrate (as N)	EPA 353.2 Rev. 2.0
	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 353.2 Rev. 2.0
	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	SM 19, 21-23 4500-P F (-99)
	SM 19, 21-23 4500-P E (-99)
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	SM 21-23 2510B (-97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1
	SM 19, 21-23 4500-SO4 D (-97)
Organohalide Pesticides	
Alachlor	EPA 525.3
Aldrin	EPA 525.3
Atrazine	EPA 525.3
Organohalide Pesticides	
Butachlor	EPA 525.3
Chlordane Total	EPA 525.3
Dieldrin	EPA 525.3
Endrin	EPA 525.3
Heptachlor	EPA 525.3
Heptachlor epoxide	EPA 525.3
Lindane	EPA 525.3
Methoxychlor	EPA 525.3
Metolachlor	EPA 525.3
Metribuzin	EPA 525.3
Propachlor	EPA 525.3
Simazine	EPA 525.3
Toxaphene	EPA 525.3
Polychlorinated Biphenyls	
PCB Screen	EPA 508
Trihalomethanes	
Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2
Volatile Aromatics	
1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2

Serial No.: 62924

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Volatile Aromatics

1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2

Volatile Halocarbons

1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260D
	EPA 8260C
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 8260C
	EPA 624.1
Amines	
1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D
	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E
Aniline	EPA 625.1
	EPA 8270D
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270D
	EPA 8270E
Pyridine	EPA 625.1
Amines	
Pyridine	EPA 8270D
	EPA 8270E
Bacteriology	
Coliform, Fecal	SM 9222D-2006
	Colilert-18
Coliform, Total	SM 9222B-2006
E. coli (Enumeration)	SM 9222B-2006/SM 9222G-20C
	Colilert-24
	SM 9223B-2004
	Colilert-18
Enterococci	SM 23 9230D (Enterolert)
Heterotrophic Plate Count	SM 18-21 9215B
Benzidines	
3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270D
	EPA 8270E
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides	
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
delta-BHC	EPA 8081B
	EPA 608.3
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B

Chlorinated Hydrocarbon Pesticides	
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
PCNB	EPA 8270D
	EPA 8270E
Toxaphene	EPA 8081B
	EPA 608.3
Chlorinated Hydrocarbons	
1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Chloronaphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
Hexachlorobenzene	EPA 8081B

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Chlorinated Hydrocarbons	
Hexachlorobenzene	EPA 625.1
	EPA 8270D
	EPA 8270E
Hexachlorobutadiene	EPA 625.1
	EPA 8270D
	EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1
	EPA 8270D
	EPA 8270E
Hexachloroethane	EPA 625.1
	EPA 8270D
	EPA 8270E
Chlorophenoxy Acid Pesticides	
2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
Pentachlorophenol	EPA 8151A
Demand	
Biochemical Oxygen Demand	SM 5210B-2011
Carbonaceous BOD	SM 5210B-2011
Demand	
Chemical Oxygen Demand	SM 5220D-2011
Fuel Oxygenates	
Di-isopropyl ether	EPA 8260D
	EPA 8260C
Ethanol	EPA 8260D
	EPA 8260C
	EPA 8015D
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-amyl alcohol	EPA 8260D
	EPA 8260C
tert-amyl methyl ether (TAME)	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
tert-butyl ethyl ether (ETBE)	EPA 8260D
	EPA 8260C
Haloethers	
2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E

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Haloethers	
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270D
	EPA 8270E
Low Level Halocarbons	
1,2-Dibromo-3-chloropropane, Low Level	EPA 8011
1,2-Dibromoethane, Low Level	EPA 8011
Low Level Polynuclear Aromatics	
Acenaphthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Anthracene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Low Level Polynuclear Aromatics	
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Chrysene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Fluorene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Naphthalene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Pyrene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Metals I	
Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B

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All approved analytes are listed below:

Metals I	
Barium, Total	EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D

Metals I	
Iron, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Lead, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

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All approved analytes are listed below:

Metals I	
Potassium, Total	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 200.8, Rev. 5.4 (1994)
Metals II	
Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Metals II	
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 7196A
	SM 3500-Cr B-2011
Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 7470A
Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D

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All approved analytes are listed below:

Metals II	
Selenium, Total	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Metals III	
Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Gold, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C

Metals III	
Molybdenum, Total	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 7010
	SM 3113B-2010
	EPA 200.9 Rev. 2.2 (1994)
	EPA 200.8, Rev. 5.4 (1994)
Tin, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Mineral	
Acidity	SM 2310B-2011
Alkalinity	SM 2320B-2011
Calcium Hardness	EPA 200.7, Rev. 4.4 (1994)

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All approved analytes are listed below:

Mineral	
Chloride	EPA 300.0, Rev. 2.1 (1993)
	SM 4500-Cl- E-2011
Hardness, Total	EPA 200.7, Rev. 4.4 (1994)
Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)
	SM 4500-SO4 D-2011
Miscellaneous	
Boron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010C
	EPA 6010D
Bromide	EPA 300.0, Rev. 2.1 (1993)
Color	SM 2120B-2011
Cyanide, Total	EPA 335.4, Rev. 1.0 (1993)
	EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664A
Oil and Grease Total Recoverable (HEM)	EPA 1664A
	EPA 1664B
	EPA 9070A (Solvent:Hexane)
Organic Carbon, Total	SM 5310B-2011
Phenols	EPA 420.4, Rev. 1.0 (1993)
Specific Conductance	SM 2510B-2011
Sulfide (as S)	SM 4500-S2- D-2011
Surfactant (MBAS)	SM 5540C-2011
Turbidity	SM 2130 B-2011

Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270D
	EPA 8270E
Isophorone	EPA 625.1
	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 625.1
	EPA 8270D
	EPA 8270E
Nitrosoamines	
N-Nitrosodimethylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270D
	EPA 8270E
Nutrient	
Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.1 (Rev. 1978)

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Nutrient	
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
Orthophosphate (as P)	SM 4500-P E-2011
	SM 4500-P F-2011 or G-2011
Phosphorus, Total	EPA 200.7, Rev. 4.4 (1994)
	SM 4500-P E-2011
Organophosphate Pesticides	
Atrazine	EPA 8141B
	EPA 8270D
	EPA 8270E
Azinphos methyl	EPA 8141B
Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Malathion	EPA 8141B
Parathion ethyl	EPA 8270D
	EPA 8270E
Simazine	EPA 8141B
Petroleum Hydrocarbons	
Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D

Phthalate Esters	
Benzyl butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270D
	EPA 8270E
Polychlorinated Biphenyls	
Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3

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Polychlorinated Biphenyls	
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A
	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 101	EPA 8082A
PCB 105	EPA 8082A
PCB 118	EPA 8082A
PCB 128	EPA 8082A
PCB 138	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 184	EPA 8082A
PCB 187	EPA 8082A
PCB 195	EPA 8082A
PCB 206	EPA 8082A
PCB 209	EPA 8082A
PCB 28	EPA 8082A

Polychlorinated Biphenyls	
PCB 44	EPA 8082A
PCB 49	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 8	EPA 8082A
PCB 87	EPA 8082A
PCB Congeners, Total	EPA 8082A
Polynuclear Aromatics	
Acenaphthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270D
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(a)anthracene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270D

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Polynuclear Aromatics	
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270D
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270D
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270D
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270D
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenanthrene	EPA 625.1

Polynuclear Aromatics	
Phenanthrene	EPA 8270D
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270D
	EPA 8270E
Priority Pollutant Phenols	
2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2,6-Dichlorophenol	EPA 8270D
	EPA 8270E

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Priority Pollutant Phenols	
2-Chlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
3-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Cresols, Total	EPA 625.1
	EPA 8270D
Priority Pollutant Phenols	
Cresols, Total	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270D
	EPA 8270E
Residue	
Settleable Solids	SM 2540 F-2011
Solids, Total	SM 2540 B-2011
Solids, Total Dissolved	SM 2540 C-2011
Solids, Total Suspended	SM 2540 D-2011
Semi-Volatile Organics	
1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
2-Methylnaphthalene	EPA 8270D
	EPA 8270E
Acetophenone	EPA 8270D
	EPA 8270E

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Semi-Volatile Organics	
alpha-Terpineol	EPA 625.1
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Volatile Aromatics	
1,2,4-Trichlorobenzene, Volatile	EPA 8260D
	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,2-Dichlorobenzene	EPA 8260D
	EPA 8260C
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,3-Dichlorobenzene	EPA 8260D
	EPA 8260C
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
Volatile Aromatics	
1,4-Dichlorobenzene	EPA 8260C
	EPA 624.1
2-Chlorotoluene	EPA 8260D
	EPA 8260C
4-Chlorotoluene	EPA 8260D
	EPA 8260C
Benzene	EPA 8260D
	EPA 8260C
	EPA 624.1
Bromobenzene	EPA 8260D
	EPA 8260C
Chlorobenzene	EPA 8260D
	EPA 8260C
	EPA 624.1
Ethyl benzene	EPA 8260D
	EPA 8260C
	EPA 624.1
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D
	EPA 8260C
	EPA 624.1
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
	EPA 624.1
n-Butylbenzene	EPA 8260D

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Volatile Aromatics	
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
	EPA 624.1
tert-Butylbenzene	EPA 8260D
	EPA 8260C
Toluene	EPA 8260D
	EPA 8260C
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 8260C
	EPA 624.1
Volatile Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
1,1-Dichloropropene	EPA 8260D
	EPA 8260C
1,2,3-Trichloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromoethane	EPA 8260D
	EPA 8260C
1,2-Dichloroethane	EPA 8260D

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Volatile Halocarbons	
1,2-Dichloroethane	EPA 8260C
	EPA 624.1
1,2-Dichloropropane	EPA 8260D
	EPA 8260C
	EPA 624.1
1,3-Dichloropropane	EPA 8260D
	EPA 8260C
2,2-Dichloropropane	EPA 8260D
	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260D
	EPA 8260C
	EPA 624.1
Bromochloromethane	EPA 8260D
	EPA 8260C
Bromodichloromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Bromoform	EPA 8260D
	EPA 8260C
	EPA 624.1
Bromomethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Carbon tetrachloride	EPA 8260D
	EPA 8260C
	EPA 624.1

Volatile Halocarbons	
Chloroethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Chloroform	EPA 8260D
	EPA 8260C
	EPA 624.1
Chloromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Dibromomethane	EPA 8260D
	EPA 8260C
Dichlorodifluoromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C
Methyl iodide	EPA 8260D

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Volatile Halocarbons	
Methyl iodide	EPA 8260C
Methylene chloride	EPA 8260D
	EPA 8260C
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D
	EPA 8260C
Trichloroethene	EPA 8260D
	EPA 8260C
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 8260C
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 8260C
	EPA 624.1

Volatiles Organics	
1,4-Dioxane	EPA 8260D
	EPA 8260C
	EPA 8270D
	EPA 8270D SIM
	EPA 8270E
	EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
2-Nitropropane	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C
	EPA 624.1
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Di-ethyl ether	EPA 8260D
	EPA 8260C
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D
Methyl acetate	EPA 8260D

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Volatiles Organics

Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Propylene Glycol	EPA 8015D
Vinyl acetate	EPA 8260D
	EPA 8260C

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2011 and C-2011
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3520C
EPA 3020A
EPA 9010C

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All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260D
	EPA 8260C
Acrylonitrile	EPA 8260D
	EPA 8260C
Amines	
1,2-Diphenylhydrazine	EPA 8270D
	EPA 8270E
2-Nitroaniline	EPA 8270D
	EPA 8270E
3-Nitroaniline	EPA 8270D
	EPA 8270E
4-Chloroaniline	EPA 8270D
	EPA 8270E
4-Nitroaniline	EPA 8270D
	EPA 8270E
Aniline	EPA 8270D
	EPA 8270E
Carbazole	EPA 8270D
	EPA 8270E
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270D
	EPA 8270E
Benzidine	EPA 8270D
	EPA 8270E

Characteristic Testing	
Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides	
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
	EPA 8270E
Simazine	EPA 8141B
Toxaphene	EPA 8081B
Chlorinated Hydrocarbons	
1,2,3-Trichlorobenzene	EPA 8260D
	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270D
	EPA 8270E
2-Chloronaphthalene	EPA 8270D
	EPA 8270E
Hexachlorobenzene	EPA 8270D
	EPA 8270E
Hexachlorobutadiene	EPA 8270D
	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270D
	EPA 8270E
Hexachloroethane	EPA 8270D
Chlorinated Hydrocarbons	
Hexachloroethane	EPA 8270E
Chlorophenoxy Acid Pesticides	
2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
MCPA	EPA 8151A
MCPP	EPA 8151A
Pentachlorophenol	EPA 8151A
Haloethers	
2,2'-Oxybis(1-chloropropane)	EPA 8270D
	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270D
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270D
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270D
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270D
	EPA 8270E

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All approved analytes are listed below:

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Anthracene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Chrysene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Fluorene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
	EPA 8270E SIM

Low Level Polynuclear Aromatic Hydrocarbons

Naphthalene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270D SIM
	EPA 8270E SIM
Pyrene Low Level	EPA 8270D SIM
	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010C
	EPA 6010D
Cadmium, Total	EPA 6010C
	EPA 6010D
Calcium, Total	EPA 6010C
	EPA 6010D
Chromium, Total	EPA 6010C
	EPA 6010D
Copper, Total	EPA 6010C
	EPA 6010D
Iron, Total	EPA 6010C
	EPA 6010D
Lead, Total	EPA 6010C
	EPA 6010D
Magnesium, Total	EPA 6010C
	EPA 6010D
Manganese, Total	EPA 6010C
	EPA 6010D

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All approved analytes are listed below:

Metals I	
Nickel, Total	EPA 6010C
	EPA 6010D
Potassium, Total	EPA 6010C
	EPA 6010D
Silver, Total	EPA 6010C
	EPA 6010D
Sodium, Total	EPA 6010C
	EPA 6010D
Strontium, Total	EPA 6010C
	EPA 6010D
Metals II	
Aluminum, Total	EPA 6010C
	EPA 6010D
Antimony, Total	EPA 6010C
	EPA 6010D
Arsenic, Total	EPA 6010C
	EPA 6010D
Beryllium, Total	EPA 6010C
	EPA 6010D
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
	EPA 6010D
Vanadium, Total	EPA 6010C
	EPA 6010D
Metals II	
Zinc, Total	EPA 6010C
	EPA 6010D
Metals III	
Cobalt, Total	EPA 6010C
	EPA 6010D
Molybdenum, Total	EPA 6010C
	EPA 6010D
Thallium, Total	EPA 6010C
	EPA 6010D
Tin, Total	EPA 6010C
	EPA 6010D
Titanium, Total	EPA 6010C
	EPA 6010D
Minerals	
Bromide	EPA 9056A
Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO4)	EPA 9056A
Miscellaneous	
Boron, Total	EPA 6010C
	EPA 6010D
Cyanide, Total	EPA 9012B
Formaldehyde	EPA 8315A
Organic Carbon, Total	Lloyd Kahn Method

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Miscellaneous	
Organic Carbon, Total	EPA 9060A
Phenols	EPA 9066
Specific Conductance	EPA 9050A
Sulfide (as S)	EPA 9034
Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 8270D
	EPA 8270E
2,6-Dinitrotoluene	EPA 8270D
	EPA 8270E
Isophorone	EPA 8270D
	EPA 8270E
Nitrobenzene	EPA 8270D
	EPA 8270E
Pyridine	EPA 8270D
	EPA 8270E
Nitrosoamines	
N-Nitrosodimethylamine	EPA 8270D
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270D
	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270D
	EPA 8270E
Nutrients	
Nitrate (as N)	EPA 9056A

Nutrients	
Nitrite (as N)	EPA 9056A
Organophosphate Pesticides	
Azinphos methyl	EPA 8141B
Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Malathion	EPA 8141B
Parathion ethyl	EPA 8270D
	EPA 8270E
Petroleum Hydrocarbons	
Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D
Oil and Grease Total Recoverable (HEM)	EPA 9071B (Solvent:Hexane)
Phthalate Esters	
Benzyl butyl phthalate	EPA 8270D
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270D
	EPA 8270E
Diethyl phthalate	EPA 8270D
	EPA 8270E
Dimethyl phthalate	EPA 8270D
	EPA 8270E
Di-n-butyl phthalate	EPA 8270D
	EPA 8270E
Di-n-octyl phthalate	EPA 8270D

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Phthalate Esters	
Di-n-octyl phthalate	EPA 8270E
Polychlorinated Biphenyls	
Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A
PCB 101	EPA 8082A
PCB 105	EPA 8082A
PCB 118	EPA 8082A
PCB 128	EPA 8082A
PCB 138	EPA 8082A
Polychlorinated Biphenyls	
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 184	EPA 8082A
PCB 187	EPA 8082A
PCB 195	EPA 8082A
PCB 206	EPA 8082A
PCB 209	EPA 8082A
PCB 28	EPA 8082A
PCB 44	EPA 8082A
PCB 49	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 8	EPA 8082A
PCB 87	EPA 8082A
PCB Congeners, Total	EPA 8082A
Polynuclear Aromatic Hydrocarbons	
Acenaphthene	EPA 8270D
	EPA 8270E
Acenaphthylene	EPA 8270D
	EPA 8270E
Anthracene	EPA 8270D
	EPA 8270E

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587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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All approved analytes are listed below:

Polynuclear Aromatic Hydrocarbons		Priority Pollutant Phenols	
Benzo(a)anthracene	EPA 8270D	2,3,4,6 Tetrachlorophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Benzo(a)pyrene	EPA 8270D	2,4,5-Trichlorophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Benzo(b)fluoranthene	EPA 8270D	2,4,6-Trichlorophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Benzo(g,h,i)perylene	EPA 8270D	2,4-Dichlorophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Benzo(k)fluoranthene	EPA 8270D	2,4-Dimethylphenol	EPA 8270D
	EPA 8270E		EPA 8270E
Chrysene	EPA 8270D	2,4-Dinitrophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270D	2,6-Dichlorophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Fluoranthene	EPA 8270D	2-Chlorophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Fluorene	EPA 8270D	2-Methyl-4,6-dinitrophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270D	2-Methylphenol	EPA 8270D
	EPA 8270E		EPA 8270E
Naphthalene	EPA 8270D	2-Nitrophenol	EPA 8270D
	EPA 8270E		EPA 8270E
Phenanthrene	EPA 8270D	3-Methylphenol	EPA 8270D
	EPA 8270E		EPA 8270E
Pyrene	EPA 8270D	4-Chloro-3-methylphenol	EPA 8270D
	EPA 8270E		EPA 8270E

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All approved analytes are listed below:

Priority Pollutant Phenols	
4-Methylphenol	EPA 8270D
	EPA 8270E
4-Nitrophenol	EPA 8270D
	EPA 8270E
Pentachlorophenol	EPA 8270D
	EPA 8270E
Phenol	EPA 8270D
	EPA 8270E
Semi-Volatile Organics	
1,1'-Biphenyl	EPA 8270D
	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
	EPA 8270E
2-Methylnaphthalene	EPA 8270D
	EPA 8270E
Acetophenone	EPA 8270D
	EPA 8270E
Benzaldehyde	EPA 8270D
	EPA 8270E
Benzoic Acid	EPA 8270D
	EPA 8270E
Semi-Volatile Organics	
Benzyl alcohol	EPA 8270D
	EPA 8270E
Caprolactam	EPA 8270D
	EPA 8270E
Dibenzofuran	EPA 8270D
	EPA 8270E
Volatile Aromatics	
1,2,4-Trichlorobenzene, Volatile	EPA 8260D
	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,2-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260D
	EPA 8260C
1,3-Dichlorobenzene	EPA 8260D
	EPA 8260C
1,4-Dichlorobenzene	EPA 8260D
	EPA 8260C
2-Chlorotoluene	EPA 8260D
	EPA 8260C
4-Chlorotoluene	EPA 8260D
	EPA 8260C
Benzene	EPA 8260D
	EPA 8260C

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All approved analytes are listed below:

Volatile Aromatics	
Bromobenzene	EPA 8260D
	EPA 8260C
Chlorobenzene	EPA 8260D
	EPA 8260C
Ethyl benzene	EPA 8260D
	EPA 8260C
Isopropylbenzene	EPA 8260D
	EPA 8260C
m/p-Xylenes	EPA 8260D
	EPA 8260C
Naphthalene, Volatile	EPA 8260D
	EPA 8260C
n-Butylbenzene	EPA 8260D
	EPA 8260C
n-Propylbenzene	EPA 8260D
	EPA 8260C
o-Xylene	EPA 8260D
	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260D
	EPA 8260C
sec-Butylbenzene	EPA 8260D
	EPA 8260C
Styrene	EPA 8260D
	EPA 8260C
tert-Butylbenzene	EPA 8260D
	EPA 8260C

Volatile Aromatics	
Toluene	EPA 8260D
	EPA 8260C
Total Xylenes	EPA 8260D
	EPA 8260C
Volatile Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,1-Trichloroethane	EPA 8260D
	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 8260C
1,1,2-Trichloroethane	EPA 8260D
	EPA 8260C
1,1-Dichloroethane	EPA 8260D
	EPA 8260C
1,1-Dichloroethene	EPA 8260D
	EPA 8260C
1,1-Dichloropropene	EPA 8260D
	EPA 8260C
1,2,3-Trichloropropane	EPA 8260D
	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260D
	EPA 8260C

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PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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All approved analytes are listed below:

Volatile Halocarbons		Volatile Halocarbons	
1,2-Dibromoethane	EPA 8260D	cis-1,2-Dichloroethene	EPA 8260D
	EPA 8260C		EPA 8260C
1,2-Dichloroethane	EPA 8260D	cis-1,3-Dichloropropene	EPA 8260D
	EPA 8260C		EPA 8260C
1,2-Dichloropropane	EPA 8260D	Dibromochloromethane	EPA 8260D
	EPA 8260C		EPA 8260C
1,3-Dichloropropane	EPA 8260D	Dibromomethane	EPA 8260D
	EPA 8260C		EPA 8260C
2,2-Dichloropropane	EPA 8260D	Dichlorodifluoromethane	EPA 8260D
	EPA 8260C		EPA 8260C
Bromochloromethane	EPA 8260D	Hexachlorobutadiene, Volatile	EPA 8260D
	EPA 8260C		EPA 8260C
Bromodichloromethane	EPA 8260D	Methylene chloride	EPA 8260D
	EPA 8260C		EPA 8260C
Bromoform	EPA 8260D	Tetrachloroethene	EPA 8260D
	EPA 8260C		EPA 8260C
Bromomethane	EPA 8260D	trans-1,2-Dichloroethene	EPA 8260D
	EPA 8260C		EPA 8260C
Carbon tetrachloride	EPA 8260D	trans-1,3-Dichloropropene	EPA 8260D
	EPA 8260C		EPA 8260C
Chloroethane	EPA 8260D	trans-1,4-Dichloro-2-butene	EPA 8260D
	EPA 8260C		EPA 8260C
Chloroform	EPA 8260D	Trichloroethene	EPA 8260D
	EPA 8260C		EPA 8260C
Chloromethane	EPA 8260D	Trichlorofluoromethane	EPA 8260D
	EPA 8260C		EPA 8260C

Serial No.: 62926

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Volatile Halocarbons	
Vinyl chloride	EPA 8260D
	EPA 8260C
Volatile Organics	
1,4-Dioxane	EPA 8260D
	EPA 8260C
	EPA 8270D SIM
	EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
	EPA 8260C
2-Hexanone	EPA 8260D
	EPA 8260C
2-Nitropropane	EPA 8260D
	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260D
	EPA 8260C
Acetone	EPA 8260D
	EPA 8260C
Carbon Disulfide	EPA 8260D
	EPA 8260C
Cyclohexane	EPA 8260D
	EPA 8260C
Di-ethyl ether	EPA 8260D
	EPA 8260C
Ethylene Glycol	EPA 8260D
	EPA 8260C

Volatile Organics	
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D
Methyl acetate	EPA 8260D
	EPA 8260C
Methyl cyclohexane	EPA 8260D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260D
	EPA 8260C
tert-butyl alcohol	EPA 8260D
	EPA 8260C
Tetrahydrofuran	EPA 8260D
	EPA 8260C
Vinyl acetate	EPA 8260D
	EPA 8260C
Sample Preparation Methods	
	EPA 5035A-L
	EPA 5035A-H
	EPA 3580A
	EPA 9030B
	EPA 3050B
	EPA 3550C
	EPA 3540C
	EPA 3546
	EPA 3545A
	EPA 3051A

Serial No.: 62926

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All approved analytes are listed below:

Sample Preparation Methods

EPA 5021A
EPA 3060A
EPA 9010C

Serial No.: 62926

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WADSWORTH CENTER

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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Lead in Dust Wipes	EPA 6010C
	EPA 6010D
Lead in Paint	EPA 6010C
	EPA 6010D

Sample Preparation Methods

	EPA 3050B
	EPA 3051A

Serial No.: 62927

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Acrylates	
Acrylonitrile	EPA TO-15
Methyl methacrylate	EPA TO-15
Chlorinated Hydrocarbons	
1,2,4-Trichlorobenzene	EPA TO-15
Hexachlorobutadiene	EPA TO-15
Hexachloroethane	EPA TO-15
Metals I	
Lead, Total	EPA 29 (6010)
	EPA 7010
Polychlorinated Biphenyls	
PCBs and Aroclors	EPA TO-10A
Polynuclear Aromatics	
Naphthalene	EPA TO-15
Purgeable Aromatics	
1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15
2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Purgeable Aromatics	
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15
Styrene	EPA TO-15
Toluene	EPA TO-15
Total Xylenes	EPA TO-15
Purgeable Halocarbons	
1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15
Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15

Serial No.: 62928

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Purgeable Halocarbons	
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15
Volatile Chlorinated Organics	
Benzyl chloride	EPA TO-15
Volatile Organics	
1,2-Dichlorotetrafluoroethane	EPA TO-15
1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetone	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15

Volatile Organics	
Isopropanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
tert-butyl alcohol	EPA TO-15

Serial No.: 62928

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certifies That

68-03530

Phoenix Environmental Laboratories Inc

587 East Middle Turnpike, Manchester, CT, 06040

Having duly met the requirement of
The act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratories Accreditation
(27 Pa. C.S. 4104-4113) and the
National Environmental Laboratory Accreditation Program Standard
is hereby approved as an

Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: **11/30/2021**

Certificate Number: **015**

Annmarie Beach

Annmarie Beach, Chief
Laboratory Accreditation Program
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status
PA DEP is a NELAP recognized accreditation body

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 1664	A	Oil and grease	NELAP	NY	11/21/2006
EPA 200.7	4.4	Aluminum	NELAP	NY	11/21/2006
EPA 200.7	4.4	Antimony	NELAP	NY	11/21/2006
EPA 200.7	4.4	Arsenic	NELAP	NY	11/21/2006
EPA 200.7	4.4	Barium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Beryllium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Boron	NELAP	NY	11/21/2006
EPA 200.7	4.4	Cadmium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Calcium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Chromium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Cobalt	NELAP	NY	11/21/2006
EPA 200.7	4.4	Copper	NELAP	NY	11/21/2006
EPA 200.7	4.4	Iron	NELAP	NY	11/21/2006
EPA 200.7	4.4	Lead	NELAP	NY	11/21/2006
EPA 200.7	4.4	Magnesium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Manganese	NELAP	NY	11/21/2006
EPA 200.7	4.4	Molybdenum	NELAP	NY	11/21/2006
EPA 200.7	4.4	Nickel	NELAP	NY	11/21/2006
EPA 200.7	4.4	Phosphorus, total	NELAP	NY	11/14/2013
EPA 200.7	4.4	Potassium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Selenium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Silver	NELAP	NY	11/21/2006
EPA 200.7	4.4	Sodium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Thallium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Tin	NELAP	NY	11/21/2006
EPA 200.7	4.4	Titanium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Vanadium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Zinc	NELAP	NY	11/21/2006
EPA 200.8	5.4	Aluminum	NELAP	NY	07/21/2017
EPA 200.8	5.4	Antimony	NELAP	NY	07/21/2017
EPA 200.8	5.4	Arsenic	NELAP	NY	07/21/2017
EPA 200.8	5.4	Barium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Beryllium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Cadmium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Calcium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Chromium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Cobalt	NELAP	NY	07/21/2017
EPA 200.8	5.4	Copper	NELAP	NY	07/21/2017
EPA 200.8	5.4	Iron	NELAP	NY	07/21/2017
EPA 200.8	5.4	Lead	NELAP	NY	07/21/2017
EPA 200.8	5.4	Magnesium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Manganese	NELAP	NY	07/21/2017

Annmarie Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 200.8	5.4	Molybdenum	NELAP	NY	07/21/2017
EPA 200.8	5.4	Nickel	NELAP	NY	07/21/2017
EPA 200.8	5.4	Potassium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Selenium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Silver	NELAP	NY	07/21/2017
EPA 200.8	5.4	Sodium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Thallium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Tin	NELAP	NY	07/21/2017
EPA 200.8	5.4	Titanium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Vanadium	NELAP	NY	07/21/2017
EPA 200.8	5.4	Zinc	NELAP	NY	07/21/2017
EPA 200.9	2.2	Thallium	NELAP	NY	11/04/2010
EPA 245.1	3.0	Mercury	NELAP	NY	11/21/2006
EPA 300.0	2.1	Bromide	NELAP	NY	11/21/2006
EPA 300.0	2.1	Chloride	NELAP	NY	11/21/2006
EPA 300.0	2.1	Nitrate as N	NELAP	NY	11/21/2006
EPA 300.0	2.1	Nitrite as N	NELAP	NY	11/21/2006
EPA 300.0	2.1	Sulfate	NELAP	NY	11/21/2006
EPA 3005	A	Preconcentration under acid	NELAP	NY	09/29/2008
EPA 3010	A	Hot plate acid digestion (HNO3 + HCl)	NELAP	NY	01/20/2010
EPA 335.4		Total cyanide	NELAP	NY	01/20/2010
EPA 350.1	2.0	Ammonia as N	NELAP	NY	11/21/2006
EPA 351.1		Kjeldahl nitrogen, total (TKN)	NELAP	NY	11/21/2006
EPA 3510	C	Separatory funnel liquid-liquid extraction	NELAP	NY	09/29/2008
EPA 3520	C	Continuous liquid-liquid extraction	NELAP	NY	09/29/2008
EPA 353.2		Nitrate as N	NELAP	NY	11/21/2006
EPA 353.2		Nitrite as N	NELAP	NY	11/04/2010
EPA 420.4		Total phenolics	NELAP	NY	11/04/2010
EPA 5030	C	Aqueous-phase purge-and-trap	NELAP	NY	09/20/2013
EPA 6010	C	Metals by ICP/AES	NELAP	NY	04/01/2013
EPA 6010	D	Metals by ICP/AES	NELAP	NY	10/31/2016
EPA 6010	C, D	Aluminum	NELAP	NY	11/16/2012
EPA 6010	C, D	Antimony	NELAP	NY	11/16/2012
EPA 6010	C, D	Arsenic	NELAP	NY	11/16/2012
EPA 6010	C, D	Barium	NELAP	NY	11/16/2012
EPA 6010	C, D	Beryllium	NELAP	NY	11/16/2012
EPA 6010	C, D	Boron	NELAP	NY	11/16/2012
EPA 6010	C, D	Cadmium	NELAP	NY	11/16/2012
EPA 6010	C, D	Calcium	NELAP	NY	11/16/2012
EPA 6010	C, D	Chromium	NELAP	NY	11/16/2012
EPA 6010	C, D	Cobalt	NELAP	NY	11/16/2012
EPA 6010	C, D	Copper	NELAP	NY	11/16/2012

Annmarie Beach

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 6010	C, D	Iron	NELAP	NY	11/16/2012
EPA 6010	C, D	Lead	NELAP	NY	11/16/2012
EPA 6010	C, D	Magnesium	NELAP	NY	11/16/2012
EPA 6010	C, D	Manganese	NELAP	NY	11/16/2012
EPA 6010	C, D	Molybdenum	NELAP	NY	11/16/2012
EPA 6010	C, D	Nickel	NELAP	NY	11/16/2012
EPA 6010	C, D	Potassium	NELAP	NY	11/16/2012
EPA 6010	C, D	Selenium	NELAP	NY	11/16/2012
EPA 6010	C, D	Silver	NELAP	NY	11/16/2012
EPA 6010	C, D	Sodium	NELAP	NY	11/16/2012
EPA 6010	C, D	Strontium	NELAP	NY	11/16/2012
EPA 6010	C, D	Thallium	NELAP	NY	11/16/2012
EPA 6010	C, D	Tin	NELAP	NY	11/16/2012
EPA 6010	C, D	Titanium	NELAP	NY	11/16/2012
EPA 6010	C, D	Vanadium	NELAP	NY	11/16/2012
EPA 6010	C, D	Zinc	NELAP	NY	11/16/2012
EPA 6020	B	Metals by ICP/MS	NELAP	NY	07/21/2017
EPA 6020	B	Aluminum	NELAP	NY	07/21/2017
EPA 6020	B	Antimony	NELAP	NY	07/21/2017
EPA 6020	B	Arsenic	NELAP	NY	07/21/2017
EPA 6020	B	Barium	NELAP	NY	07/21/2017
EPA 6020	B	Beryllium	NELAP	NY	07/21/2017
EPA 6020	B	Cadmium	NELAP	NY	07/21/2017
EPA 6020	B	Calcium	NELAP	NY	07/21/2017
EPA 6020	B	Chromium	NELAP	NY	07/21/2017
EPA 6020	B	Cobalt	NELAP	NY	07/21/2017
EPA 6020	B	Copper	NELAP	NY	07/21/2017
EPA 6020	B	Gold	NELAP	NY	07/21/2017
EPA 6020	B	Iron	NELAP	NY	07/21/2017
EPA 6020	B	Lead	NELAP	NY	07/21/2017
EPA 6020	B	Magnesium	NELAP	NY	07/21/2017
EPA 6020	B	Manganese	NELAP	NY	07/21/2017
EPA 6020	B	Molybdenum	NELAP	NY	07/21/2017
EPA 6020	B	Nickel	NELAP	NY	07/21/2017
EPA 6020	B	Potassium	NELAP	NY	07/21/2017
EPA 6020	B	Selenium	NELAP	NY	07/21/2017
EPA 6020	B	Silver	NELAP	NY	07/21/2017
EPA 6020	B	Sodium	NELAP	NY	07/21/2017
EPA 6020	B	Thallium	NELAP	NY	07/21/2017
EPA 6020	B	Tin	NELAP	NY	07/21/2017
EPA 6020	B	Titanium	NELAP	NY	07/21/2017
EPA 6020	B	Vanadium	NELAP	NY	07/21/2017

Annmarie Beach

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pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 6020	B	Zinc	NELAP	NY	07/21/2017
EPA 608.3		4,4'-DDD	NELAP	NY	05/03/2018
EPA 608.3		4,4'-DDE	NELAP	NY	05/03/2018
EPA 608.3		4,4'-DDT	NELAP	NY	05/03/2018
EPA 608.3		Aldrin (HHDN)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1016 (PCB-1016)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1221 (PCB-1221)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1232 (PCB-1232)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1242 (PCB-1242)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1248 (PCB-1248)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1254 (PCB-1254)	NELAP	NY	05/03/2018
EPA 608.3		Aroclor-1260 (PCB-1260)	NELAP	NY	05/03/2018
EPA 608.3		Chlordane (tech.)	NELAP	NY	05/03/2018
EPA 608.3		Dieldrin	NELAP	NY	05/03/2018
EPA 608.3		Endosulfan I	NELAP	NY	05/03/2018
EPA 608.3		Endosulfan II	NELAP	NY	05/03/2018
EPA 608.3		Endosulfan sulfate	NELAP	NY	05/03/2018
EPA 608.3		Endrin	NELAP	NY	05/03/2018
EPA 608.3		Endrin aldehyde	NELAP	NY	05/03/2018
EPA 608.3		Heptachlor	NELAP	NY	05/03/2018
EPA 608.3		Heptachlor epoxide	NELAP	NY	05/03/2018
EPA 608.3		Methoxychlor	NELAP	NY	05/03/2018
EPA 608.3		Toxaphene (Chlorinated camphene)	NELAP	NY	05/03/2018
EPA 608.3		alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	NY	05/03/2018
EPA 608.3		beta-BHC (beta-Hexachlorocyclohexane)	NELAP	NY	05/03/2018
EPA 608.3		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	NY	05/03/2018
EPA 608.3		gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	05/03/2018
EPA 624.1		1,1,1-Trichloroethane	NELAP	NY	05/03/2018
EPA 624.1		1,1,2,2-Tetrachloroethane	NELAP	NY	05/03/2018
EPA 624.1		1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NELAP	NY	11/14/2018
EPA 624.1		1,1,2-Trichloroethane	NELAP	NY	05/03/2018
EPA 624.1		1,1-Dichloroethane	NELAP	NY	05/03/2018
EPA 624.1		1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	05/03/2018
EPA 624.1		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	05/03/2018
EPA 624.1		1,2-Dichloroethane	NELAP	NY	05/03/2018
EPA 624.1		1,2-Dichloropropane	NELAP	NY	05/03/2018
EPA 624.1		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	05/03/2018
EPA 624.1		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	05/03/2018
EPA 624.1		2-Chloroethyl vinyl ether	NELAP	NY	05/03/2018
EPA 624.1		Acetone	NELAP	NY	05/03/2018
EPA 624.1		Acrolein (Propenal)	NELAP	NY	05/03/2018

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 624.1		Acrylonitrile	NELAP	NY	05/03/2018
EPA 624.1		Benzene	NELAP	NY	05/03/2018
EPA 624.1		Bromodichloromethane	NELAP	NY	05/03/2018
EPA 624.1		Bromoform	NELAP	NY	10/05/2018
EPA 624.1		Carbon tetrachloride	NELAP	NY	05/03/2018
EPA 624.1		Chlorobenzene	NELAP	NY	05/03/2018
EPA 624.1		Chloroethane	NELAP	NY	05/03/2018
EPA 624.1		Chloroform	NELAP	NY	05/03/2018
EPA 624.1		Dibromochloromethane	NELAP	NY	05/03/2018
EPA 624.1		Dichlorodifluoromethane (Freon 12)	NELAP	NY	05/03/2018
EPA 624.1		Ethylbenzene	NELAP	NY	05/03/2018
EPA 624.1		Methyl bromide (Bromomethane)	NELAP	NY	05/03/2018
EPA 624.1		Methyl chloride (Chloromethane)	NELAP	NY	05/03/2018
EPA 624.1		Methyl tert-butyl ether (MTBE)	NELAP	NY	05/03/2018
EPA 624.1		Methylene chloride (Dichloromethane)	NELAP	NY	05/03/2018
EPA 624.1		Naphthalene	NELAP	NY	11/14/2018
EPA 624.1		Styrene	NELAP	NY	05/03/2018
EPA 624.1		Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	05/03/2018
EPA 624.1		Toluene	NELAP	NY	05/03/2018
EPA 624.1		Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	05/03/2018
EPA 624.1		Trichlorofluoromethane (Freon 11)	NELAP	NY	05/03/2018
EPA 624.1		Vinyl chloride (Chloroethene)	NELAP	NY	05/03/2018
EPA 624.1		Xylenes, total	NELAP	NY	05/03/2018
EPA 624.1		cis-1,2-Dichloroethene	NELAP	NY	05/03/2018
EPA 624.1		cis-1,3-Dichloropropene	NELAP	NY	05/03/2018
EPA 624.1		m+p-Xylene	NELAP	NY	05/03/2018
EPA 624.1		o-Xylene	NELAP	NY	05/03/2018
EPA 624.1		trans-1,2-Dichloroethene	NELAP	NY	05/03/2018
EPA 624.1		trans-1,3-Dichloropropene	NELAP	NY	05/03/2018
EPA 625.1		1,2,4-Trichlorobenzene	NELAP	NY	05/03/2018
EPA 625.1		2,2'-oxybis(1-Chloropropane)	NELAP	NY	05/03/2018
EPA 625.1		2,4,5-Trichlorophenol	NELAP	NY	05/03/2018
EPA 625.1		2,4,6-Trichlorophenol	NELAP	NY	05/03/2018
EPA 625.1		2,4-Dichlorophenol	NELAP	NY	05/03/2018
EPA 625.1		2,4-Dimethylphenol	NELAP	NY	05/03/2018
EPA 625.1		2,4-Dinitrophenol	NELAP	NY	05/03/2018
EPA 625.1		2,4-Dinitrotoluene (2,4-DNT)	NELAP	NY	05/03/2018
EPA 625.1		2,6-Dinitrotoluene (2,6-DNT)	NELAP	NY	05/03/2018
EPA 625.1		2-Chloronaphthalene	NELAP	NY	05/03/2018
EPA 625.1		2-Chlorophenol	NELAP	NY	05/03/2018
EPA 625.1		2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	NELAP	NY	05/03/2018

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 625.1		2-Methylphenol (o-Cresol)	NELAP	NY	05/03/2018
EPA 625.1		2-Nitrophenol	NELAP	NY	05/03/2018
EPA 625.1		3+4-Methylphenol (m+p-Cresol)	NELAP	NY	05/03/2018
EPA 625.1		3,3'-Dichlorobenzidine	NELAP	NY	05/03/2018
EPA 625.1		4-Bromophenyl phenyl ether	NELAP	NY	05/03/2018
EPA 625.1		4-Chloro-3-methylphenol	NELAP	NY	05/03/2018
EPA 625.1		4-Chlorophenyl phenyl ether	NELAP	NY	05/03/2018
EPA 625.1		4-Nitrophenol	NELAP	NY	05/03/2018
EPA 625.1		Acenaphthene	NELAP	NY	05/03/2018
EPA 625.1		Acenaphthylene	NELAP	NY	05/03/2018
EPA 625.1		Aniline	NELAP	NY	05/03/2018
EPA 625.1		Anthracene	NELAP	NY	05/03/2018
EPA 625.1		Benzidine	NELAP	NY	05/03/2018
EPA 625.1		Benzo[a]anthracene	NELAP	NY	05/03/2018
EPA 625.1		Benzo[a]pyrene	NELAP	NY	05/03/2018
EPA 625.1		Benzo[b]fluoranthene	NELAP	NY	05/03/2018
EPA 625.1		Benzo[ghi]perylene	NELAP	NY	05/03/2018
EPA 625.1		Benzo[k]fluoranthene	NELAP	NY	05/03/2018
EPA 625.1		Butyl benzyl phthalate (Benzyl butyl phthalate)	NELAP	NY	05/03/2018
EPA 625.1		Carbazole	NELAP	NY	05/03/2018
EPA 625.1		Chrysene (Benzo[a]phenanthrene)	NELAP	NY	05/03/2018
EPA 625.1		Cresols (total)	NELAP	NY	05/03/2018
EPA 625.1		Di-n-butyl phthalate	NELAP	NY	05/03/2018
EPA 625.1		Di-n-octyl phthalate	NELAP	NY	05/03/2018
EPA 625.1		Dibenzo[a,h]anthracene	NELAP	NY	05/03/2018
EPA 625.1		Diethyl phthalate	NELAP	NY	05/03/2018
EPA 625.1		Dimethyl phthalate	NELAP	NY	05/03/2018
EPA 625.1		Fluoranthene	NELAP	NY	05/03/2018
EPA 625.1		Fluorene	NELAP	NY	05/03/2018
EPA 625.1		Hexachlorobenzene	NELAP	NY	05/03/2018
EPA 625.1		Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	05/03/2018
EPA 625.1		Hexachlorocyclopentadiene	NELAP	NY	05/03/2018
EPA 625.1		Hexachloroethane	NELAP	NY	05/03/2018
EPA 625.1		Indeno(1,2,3-cd)pyrene	NELAP	NY	05/03/2018
EPA 625.1		Isophorone	NELAP	NY	05/03/2018
EPA 625.1		N-Nitrosodi-n-propylamine	NELAP	NY	05/03/2018
EPA 625.1		N-Nitrosodimethylamine	NELAP	NY	05/03/2018
EPA 625.1		N-Nitrosodiphenylamine	NELAP	NY	05/03/2018
EPA 625.1		Naphthalene	NELAP	NY	05/03/2018
EPA 625.1		Nitrobenzene	NELAP	NY	05/03/2018
EPA 625.1		Pentachlorophenol (PCP)	NELAP	NY	05/03/2018
EPA 625.1		Phenanthrene	NELAP	NY	05/03/2018

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 625.1		Phenol	NELAP	NY	05/03/2018
EPA 625.1		Pyrene	NELAP	NY	05/03/2018
EPA 625.1		Pyridine	NELAP	NY	05/03/2018
EPA 625.1		alpha-Terpineol	NELAP	NY	05/03/2018
EPA 625.1		bis(2-Chloroethoxy)methane	NELAP	NY	05/03/2018
EPA 625.1		bis(2-Chloroethyl) ether	NELAP	NY	05/03/2018
EPA 625.1		bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	05/03/2018
EPA 7010		Antimony	NELAP	NY	12/02/2014
EPA 7010		Arsenic	NELAP	NY	12/02/2014
EPA 7010		Cadmium	NELAP	NY	12/02/2014
EPA 7010		Lead	NELAP	NY	12/02/2014
EPA 7010		Selenium	NELAP	NY	12/02/2014
EPA 7010		Silver	NELAP	NY	12/02/2014
EPA 7010		Thallium	NELAP	NY	12/02/2014
EPA 7196	A	Chromium VI	NELAP	NY	04/01/2013
EPA 7470	A	Mercury	NELAP	NY	04/01/2013
EPA 8011		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	08/11/2011
EPA 8011		1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	NY	08/11/2011
EPA 8015	D	Nonhalogenated organics by GC/FID	NELAP	NY	11/14/2013
EPA 8015	D	Diesel-range organics (DRO)	NELAP	NY	11/14/2013
EPA 8015	D	Ethanol	NELAP	NY	11/16/2012
EPA 8015	D	Ethylene glycol	NELAP	NY	10/31/2016
EPA 8015	D	Gasoline-range organics (GRO)	NELAP	NY	11/14/2013
EPA 8015	D	Isobutyl alcohol (2-Methyl-1-propanol)	NELAP	NY	01/20/2010
EPA 8081	B	Organochlorine pesticides by GC/ECD	NELAP	NY	11/14/2013
EPA 8081	B	4,4'-DDD	NELAP	NY	11/21/2006
EPA 8081	B	4,4'-DDE	NELAP	NY	11/21/2006
EPA 8081	B	4,4'-DDT	NELAP	NY	11/21/2006
EPA 8081	B	Aldrin (HHDN)	NELAP	NY	11/21/2006
EPA 8081	B	Chlordane (tech.)	NELAP	NY	11/21/2006
EPA 8081	B	Dieldrin	NELAP	NY	11/21/2006
EPA 8081	B	Endosulfan I	NELAP	NY	11/21/2006
EPA 8081	B	Endosulfan II	NELAP	NY	11/21/2006
EPA 8081	B	Endosulfan sulfate	NELAP	NY	11/21/2006
EPA 8081	B	Endrin	NELAP	NY	11/21/2006
EPA 8081	B	Endrin aldehyde	NELAP	NY	11/21/2006
EPA 8081	B	Endrin ketone	NELAP	NY	11/04/2010
EPA 8081	B	Heptachlor	NELAP	NY	11/21/2006
EPA 8081	B	Heptachlor epoxide	NELAP	NY	11/21/2006
EPA 8081	B	Methoxychlor	NELAP	NY	11/21/2006
EPA 8081	B	Toxaphene (Chlorinated camphene)	NELAP	NY	11/21/2006

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8081	B	alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	alpha-Chlordane	NELAP	NY	11/16/2012
EPA 8081	B	beta-BHC (beta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	delta-BHC (delta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8082	A	PCBs by GC/ECD	NELAP	NY	11/14/2013
EPA 8082	A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ 206)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ 195)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ 170)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,3',4,4'-Hexachlorobiphenyl (BZ 128)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ 187)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ 183)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ 138)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ 180)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ 184)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,5'-Pentachlorobiphenyl (BZ 87)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,5'-Tetrachlorobiphenyl (BZ 44)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ 153)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',4,5'-Tetrachlorobiphenyl (BZ 49)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',4,5,5'-Pentachlorobiphenyl (BZ 101)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',5,5'-Tetrachlorobiphenyl (BZ 52)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',5-Trichlorobiphenyl (BZ 18)	NELAP	NY	11/14/2018
EPA 8082	A	2,3',4,4',5-Pentachlorobiphenyl (BZ 118)	NELAP	NY	11/14/2018
EPA 8082	A	2,3',4,4'-Tetrachlorobiphenyl (BZ 66)	NELAP	NY	11/14/2018
EPA 8082	A	2,3,3',4,4'-Pentachlorobiphenyl (BZ 105)	NELAP	NY	11/14/2018
EPA 8082	A	2,4'-Dichlorobiphenyl (BZ 8)	NELAP	NY	11/14/2018
EPA 8082	A	2,4,4'-Trichlorobiphenyl (BZ 28)	NELAP	NY	11/14/2018
EPA 8082	A	Aroclor-1016 (PCB-1016)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1221 (PCB-1221)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1232 (PCB-1232)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1242 (PCB-1242)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1248 (PCB-1248)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1254 (PCB-1254)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1260 (PCB-1260)	NELAP	NY	11/21/2006
EPA 8082	A	Decachlorobiphenyl	NELAP	NY	11/14/2018
EPA 8141	B	Organophosphorus compounds by GC/NPD	NELAP	NY	11/14/2013
EPA 8141	B	Atrazine	NELAP	NY	11/16/2012
EPA 8141	B	Azinphos-methyl (Guthion)	NELAP	NY	11/16/2012
EPA 8141	B	Diazinon (Spectracide)	NELAP	NY	11/16/2012
EPA 8141	B	Disulfoton	NELAP	NY	11/16/2012
EPA 8141	B	Malathion	NELAP	NY	11/21/2006

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Laboratory Scope of Accreditation

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587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8141	B	Simazine	NELAP	NY	01/20/2010
EPA 8151	A	Chlorinated herbicides by GC/ECD	NELAP	NY	11/14/2013
EPA 8151	A	2,4,5-T	NELAP	NY	11/21/2006
EPA 8151	A	2,4,5-TP (Silvex)	NELAP	NY	11/21/2006
EPA 8151	A	2,4-D	NELAP	NY	11/21/2006
EPA 8151	A	2,4-DB (Butoxon)	NELAP	NY	11/04/2010
EPA 8151	A	Dalapon (2,2-Dichloropropionic acid)	NELAP	NY	01/20/2010
EPA 8151	A	Dicamba	NELAP	NY	11/21/2006
EPA 8151	A	Dichloroprop (Dichlorprop)	NELAP	NY	11/16/2012
EPA 8151	A	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	NY	01/20/2010
EPA 8260	C	VOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8260	D	VOCs by GC/MS	NELAP	NY	11/06/2019
EPA 8260	C, D	1,1,1,2-Tetrachloroethane	NELAP	NY	01/20/2010
EPA 8260	C, D	1,1,1-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1,2,2-Tetrachloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1,2-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1-Dichloropropene	NELAP	NY	11/04/2010
EPA 8260	C, D	1,2,3-Trichlorobenzene	NELAP	NY	11/04/2010
EPA 8260	C, D	1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	NY	11/04/2010
EPA 8260	C, D	1,2,4-Trichlorobenzene	NELAP	NY	11/16/2012
EPA 8260	C, D	1,2,4-Trimethylbenzene	NELAP	NY	11/04/2010
EPA 8260	C, D	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	01/20/2010
EPA 8260	C, D	1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	NY	01/20/2010
EPA 8260	C, D	1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,2-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,2-Dichloropropane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,3,5-Trimethylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,3-Dichloropropane	NELAP	NY	01/20/2010
EPA 8260	C, D	1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	01/20/2010
EPA 8260	C, D	2,2-Dichloropropane	NELAP	NY	01/20/2010
EPA 8260	C, D	2-Butanone (Methyl ethyl ketone, MEK)	NELAP	NY	11/21/2006
EPA 8260	C, D	2-Chloroethyl vinyl ether	NELAP	NY	11/21/2006
EPA 8260	C, D	2-Chlorotoluene	NELAP	NY	11/04/2010
EPA 8260	C, D	2-Hexanone	NELAP	NY	11/16/2012
EPA 8260	C, D	2-Nitropropane	NELAP	NY	11/03/2020
EPA 8260	C, D	4-Chlorotoluene	NELAP	NY	11/04/2010
EPA 8260	C, D	4-Methyl-2-pentanone (MIBK)	NELAP	NY	11/16/2012

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Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8260	C, D	Acetone	NELAP	NY	11/04/2010
EPA 8260	C, D	Acrolein (Propenal)	NELAP	NY	11/21/2006
EPA 8260	C, D	Acrylonitrile	NELAP	NY	11/21/2006
EPA 8260	C, D	Benzene	NELAP	NY	11/21/2006
EPA 8260	C, D	Bromobenzene	NELAP	NY	11/16/2012
EPA 8260	C, D	Bromochloromethane	NELAP	NY	01/20/2010
EPA 8260	C, D	Bromodichloromethane	NELAP	NY	11/21/2006
EPA 8260	C, D	Bromoform	NELAP	NY	10/05/2018
EPA 8260	C, D	Carbon disulfide	NELAP	NY	01/20/2010
EPA 8260	C, D	Carbon tetrachloride	NELAP	NY	11/21/2006
EPA 8260	C, D	Chlorobenzene	NELAP	NY	11/21/2006
EPA 8260	C, D	Chloroform	NELAP	NY	11/21/2006
EPA 8260	C, D	Cyclohexane	NELAP	NY	11/16/2012
EPA 8260	C, D	Dibromochloromethane	NELAP	NY	11/21/2006
EPA 8260	C, D	Dibromomethane	NELAP	NY	01/20/2010
EPA 8260	C, D	Dichlorodifluoromethane (Freon 12)	NELAP	NY	11/21/2006
EPA 8260	C, D	Diisopropyl ether (DIPE)	NELAP	NY	11/16/2012
EPA 8260	C, D	Ethanol	NELAP	NY	01/20/2010
EPA 8260	C, D	Ethylbenzene	NELAP	NY	11/21/2006
EPA 8260	C, D	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/16/2012
EPA 8260	C, D	Isopropylbenzene (Cumene)	NELAP	NY	11/04/2010
EPA 8260	C, D	Methyl bromide (Bromomethane)	NELAP	NY	11/21/2006
EPA 8260	C, D	Methyl chloride (Chloromethane)	NELAP	NY	11/21/2006
EPA 8260	C, D	Methyl tert-butyl ether (MTBE)	NELAP	NY	01/20/2010
EPA 8260	C, D	Methylcyclohexane	NELAP	NY	11/16/2012
EPA 8260	C, D	Methylene chloride (Dichloromethane)	NELAP	NY	11/21/2006
EPA 8260	C, D	Naphthalene	NELAP	NY	11/16/2012
EPA 8260	C, D	Styrene	NELAP	NY	01/20/2010
EPA 8260	C, D	Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	11/21/2006
EPA 8260	C, D	Toluene	NELAP	NY	11/21/2006
EPA 8260	C, D	Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	11/21/2006
EPA 8260	C, D	Trichlorofluoromethane (Freon 11)	NELAP	NY	11/21/2006
EPA 8260	C, D	Vinyl acetate	NELAP	NY	01/20/2010
EPA 8260	C, D	Vinyl chloride (Chloroethene)	NELAP	NY	11/21/2006
EPA 8260	C, D	Xylenes, total	NELAP	NY	11/21/2006
EPA 8260	C, D	cis-1,2-Dichloroethene	NELAP	NY	01/20/2010
EPA 8260	C, D	cis-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260	C, D	n-Butylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	n-Propylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	sec-Butylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	tert-Amyl methyl ether (TAME)	NELAP	NY	11/16/2012
EPA 8260	C, D	tert-Butyl alcohol (2-Methyl-2-propanol)	NELAP	NY	01/20/2010

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8260	C, D	tert-Butylbenzene	NELAP	NY	11/04/2010
EPA 8260	C, D	trans-1,2-Dichloroethene	NELAP	NY	11/21/2006
EPA 8260	C, D	trans-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260	C, D	trans-1,4-Dichloro-2-butene	NELAP	NY	01/20/2010
EPA 8260	D	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NELAP	NY	11/06/2019
EPA 8260	D	Chloroethane	NELAP	NY	11/06/2019
EPA 8260	D	Diethyl ether (Ethyl ether)	NELAP	NY	11/06/2019
EPA 8260	D	Iodomethane (Methyl iodide)	NELAP	NY	11/06/2019
EPA 8260	D	Methyl acetate	NELAP	NY	11/06/2019
EPA 8260	D	m+p-Xylene	NELAP	NY	11/06/2019
EPA 8260	D	o-Xylene	NELAP	NY	11/06/2019
EPA 8260	D	p-Isopropyltoluene (4-Isopropyltoluene)	NELAP	NY	11/06/2019
EPA 8260	D	tert-Amyl alcohol (2-Methyl-2-butanol)	NELAP	NY	11/06/2019
EPA 8260	D	tert-Butyl ethyl ether	NELAP	NY	11/06/2019
EPA 8270	D	SOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8270	E	SOCs by GC/MS	NELAP	NY	11/03/2020
EPA 8270	D, E	1,2,4,5-Tetrachlorobenzene	NELAP	NY	11/16/2012
EPA 8270	D, E	1,2,4-Trichlorobenzene	NELAP	NY	11/21/2006
EPA 8270	D, E	1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270	D, E	1,2-Diphenylhydrazine	NELAP	NY	11/16/2012
EPA 8270	D, E	1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270	D, E	1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270	D, E	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	11/14/2018
EPA 8270	D, E	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	NELAP	NY	12/10/2015
EPA 8270	D, E	2,3,4,6-Tetrachlorophenol	NELAP	NY	11/16/2012
EPA 8270	D, E	2,4,5-Trichlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4,6-Trichlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dichlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dimethylphenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dinitrophenol	NELAP	NY	11/16/2012
EPA 8270	D, E	2,4-Dinitrotoluene (2,4-DNT)	NELAP	NY	11/21/2006
EPA 8270	D, E	2,6-Dichlorophenol	NELAP	NY	11/03/2020
EPA 8270	D, E	2,6-Dinitrotoluene (2,6-DNT)	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Chloronaphthalene	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Chlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Methylnaphthalene	NELAP	NY	11/16/2012
EPA 8270	D, E	2-Methylphenol (o-Cresol)	NELAP	NY	11/04/2010
EPA 8270	D, E	2-Nitroaniline	NELAP	NY	11/16/2012
EPA 8270	D, E	2-Nitrophenol	NELAP	NY	11/21/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8270	D, E	3+4-Methylphenol (m+p-Cresol)	NELAP	NY	11/16/2012
EPA 8270	D, E	3,3'-Dichlorobenzidine	NELAP	NY	11/21/2006
EPA 8270	D, E	3-Nitroaniline	NELAP	NY	11/16/2012
EPA 8270	D, E	4-Bromophenyl phenyl ether	NELAP	NY	11/21/2006
EPA 8270	D, E	4-Chloro-3-methylphenol	NELAP	NY	11/21/2006
EPA 8270	D, E	4-Chloroaniline	NELAP	NY	11/16/2012
EPA 8270	D, E	4-Chlorophenyl phenyl ether	NELAP	NY	11/21/2006
EPA 8270	D, E	4-Nitroaniline	NELAP	NY	11/16/2012
EPA 8270	D, E	4-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	Acenaphthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Acenaphthylene	NELAP	NY	11/21/2006
EPA 8270	D, E	Acetophenone	NELAP	NY	11/16/2012
EPA 8270	D, E	Aniline	NELAP	NY	11/16/2012
EPA 8270	D, E	Anthracene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzidine	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[a]anthracene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[a]pyrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[b]fluoranthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[ghi]perylene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[k]fluoranthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzoic acid	NELAP	NY	11/16/2012
EPA 8270	D, E	Benzyl alcohol	NELAP	NY	11/16/2012
EPA 8270	D, E	Benzyl butyl phthalate (Butyl benzyl phthalate)	NELAP	NY	11/21/2006
EPA 8270	D, E	Carbazole	NELAP	NY	01/20/2010
EPA 8270	D, E	Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/21/2006
EPA 8270	D, E	Di-n-butyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Di-n-octyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Dibenzo[a,h]anthracene	NELAP	NY	11/21/2006
EPA 8270	D, E	Dibenzofuran	NELAP	NY	01/20/2010
EPA 8270	D, E	Diethyl phthalate	NELAP	NY	01/20/2010
EPA 8270	D, E	Dimethyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Fluoranthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Fluorene	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachlorobenzene	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachlorocyclopentadiene	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachloroethane	NELAP	NY	11/21/2006
EPA 8270	D, E	Indeno(1,2,3-cd)pyrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Isophorone	NELAP	NY	11/21/2006
EPA 8270	D, E	N-Nitrosodi-n-propylamine	NELAP	NY	11/21/2006
EPA 8270	D, E	N-Nitrosodimethylamine	NELAP	NY	11/21/2006
EPA 8270	D, E	N-Nitrosodiphenylamine	NELAP	NY	11/21/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8270	D, E	Naphthalene	NELAP	NY	11/21/2006
EPA 8270	D, E	Nitrobenzene	NELAP	NY	11/21/2006
EPA 8270	D, E	Parathion, ethyl (Ethyl parathion, Parathion)	NELAP	NY	10/28/2015
EPA 8270	D, E	Pentachloronitrobenzene (PCNB)	NELAP	NY	11/03/2020
EPA 8270	D, E	Pentachlorophenol (PCP)	NELAP	NY	11/21/2006
EPA 8270	D, E	Phenanthrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Phenol	NELAP	NY	11/21/2006
EPA 8270	D, E	Pyrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Pyridine	NELAP	NY	11/21/2006
EPA 8270	D, E	bis(2-Chloroethoxy)methane	NELAP	NY	11/21/2006
EPA 8270	D, E	bis(2-Chloroethyl) ether	NELAP	NY	11/21/2006
EPA 8270	D, E	bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	11/21/2006
EPA 8270	E	1,1'-Biphenyl (Biphenyl, Lemonene)	NELAP	NY	11/03/2020
EPA 8270	E	Atrazine	NELAP	NY	11/03/2020
EPA 8270	E	Benzaldehyde	NELAP	NY	11/03/2020
EPA 8270	E	Caprolactam	NELAP	NY	11/03/2020
EPA 8270	E	Cresols (total)	NELAP	NY	11/03/2020
EPA 8270 SIM	D	SOCs by GC/MS	NELAP	NY	07/26/2019
EPA 8270 SIM	E	SOCs by GC/MS	NELAP	NY	11/03/2020
EPA 8270 SIM	D	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	11/14/2018
EPA 8270 SIM	D	Acenaphthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Acenaphthylene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Anthracene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[a]anthracene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[a]pyrene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[b]fluoranthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[ghi]perylene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[k]fluoranthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Chrysene (Benzo[a]phenanthrene)	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Dibenzo[a,h]anthracene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Fluoranthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Fluorene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Indeno(1,2,3-cd)pyrene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Naphthalene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Phenanthrene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Pyrene	NELAP	NY	03/09/2016
EPA 8270 SIM	E	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Acenaphthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Acenaphthylene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Anthracene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[a]anthracene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[a]pyrene	NELAP	NY	11/03/2020

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8270 SIM	E	Benzo[b]fluoranthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[ghi]perylene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[k]fluoranthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Dibenzo[a,h]anthracene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Fluoranthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Fluorene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Indeno(1,2,3-cd)pyrene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Naphthalene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Phenanthrene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Pyrene	NELAP	NY	11/03/2020
EPA 8315	A	Carbonyl compounds by HPLC	NELAP	NY	11/14/2013
EPA 8315	A	Formaldehyde	NELAP	NY	11/16/2012
EPA 9070	A	Oil and grease	NELAP	NY	11/14/2013
SM 2120 B		Color	NELAP	NY	09/26/2007
SM 2130 B		Turbidity	NELAP	NY	11/04/2010
SM 2310 B		Acidity as CaCO3	NELAP	NY	11/21/2006
SM 2320 B		Alkalinity as CaCO3	NELAP	NY	11/21/2006
SM 2510 B		Conductivity	NELAP	NY	11/21/2006
SM 2540 B		Residue, total	NELAP	NY	11/21/2006
SM 2540 C		Residue, filterable (TDS)	NELAP	NY	11/21/2006
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	NY	11/21/2006
SM 2540 E		Residue, volatile	NELAP	NY	10/28/2015
SM 2540 F		Residue, settleable	NELAP	NY	01/20/2010
SM 3113 B		Antimony	NELAP	NY	11/21/2006
SM 3113 B		Arsenic	NELAP	NY	11/21/2006
SM 3113 B		Lead	NELAP	NY	11/21/2006
SM 3113 B		Selenium	NELAP	NY	11/21/2006
SM 3113 B		Silver	NELAP	NY	09/26/2007
SM 3500-Cr B	20-22	Chromium VI	NELAP	NY	04/01/2014
SM 4500-Cl- E		Chloride	NELAP	NY	11/21/2006
SM 4500-P B		Preliminary treatment of phosphate samples	NELAP	NY	11/14/2013
SM 4500-P E		Orthophosphate as P	NELAP	NY	11/21/2006
SM 4500-P E		Phosphorus, total	NELAP	NY	11/21/2006
SM 4500-P G		Orthophosphate as P	NELAP	NY	07/21/2017
SM 4500-S2- D		Sulfide	NELAP	NY	11/16/2012
SM 4500-SO4 D		Sulfate	NELAP	NY	09/26/2007
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	NY	09/26/2007
SM 5210 B		Carbonaceous BOD (CBOD)	NELAP	NY	11/21/2006
SM 5220 D		Chemical oxygen demand (COD)	NELAP	NY	11/21/2006
SM 5310 B		Total organic carbon (TOC)	NELAP	NY	11/14/2018
SM 5540 C		Surfactants as MBAS	NELAP	NY	11/21/2006

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(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
ASTM D3987-12		Shake extraction of solid waste with water	NELAP	PA	11/06/2019
EPA 1010	A	Ignitability	NELAP	NY	04/01/2013
EPA 1311		Toxicity characteristic leaching procedure (TCLP)	NELAP	NY	11/21/2006
EPA 1312		Synthetic precipitation leaching procedure (SPLP)	NELAP	NY	11/04/2010
EPA 3050	B	Acid digestion of solids	NELAP	NY	09/26/2007
EPA 3051	A	Microwave digestion of solids (HNO3 + HCl)	NELAP	NY	10/31/2016
EPA 3060	A	Alkaline digestion of Cr(VI)	NELAP	NY	03/30/2010
EPA 3540	C	Soxhlet extraction	NELAP	NY	01/20/2010
EPA 3545	A	Pressurized fluid extraction (PFE)	NELAP	NY	11/16/2012
EPA 3546		Microwave extraction	NELAP	NY	11/03/2020
EPA 3550	C	Ultrasonic extraction	NELAP	NY	09/20/2013
EPA 3580	A	Waste dilution	NELAP	NY	09/26/2007
EPA 5021		Equilibrium headspace	NELAP	NY	11/16/2012
EPA 5035	A	Closed-system purge-and-trap (bisulfate option)	NELAP	NY	04/01/2013
EPA 5035	A	Closed-system purge-and-trap (methanol option)	NELAP	NY	04/01/2013
EPA 5035	A	Closed-system purge-and-trap (unpreserved)	NELAP	NY	04/01/2013
EPA 6010	C	Metals by ICP/AES	NELAP	NY	04/01/2013
EPA 6010	D	Metals by ICP/AES	NELAP	NY	10/31/2016
EPA 6010	C, D	Aluminum	NELAP	NY	11/16/2012
EPA 6010	C, D	Antimony	NELAP	NY	11/16/2012
EPA 6010	C, D	Arsenic	NELAP	NY	11/16/2012
EPA 6010	C, D	Barium	NELAP	NY	11/16/2012
EPA 6010	C, D	Beryllium	NELAP	NY	11/16/2012
EPA 6010	C, D	Boron	NELAP	NY	11/16/2012
EPA 6010	C, D	Cadmium	NELAP	NY	11/16/2012
EPA 6010	C, D	Calcium	NELAP	NY	11/16/2012
EPA 6010	C, D	Chromium	NELAP	NY	11/16/2012
EPA 6010	C, D	Cobalt	NELAP	NY	11/16/2012
EPA 6010	C, D	Copper	NELAP	NY	11/16/2012
EPA 6010	C, D	Iron	NELAP	NY	11/16/2012
EPA 6010	C, D	Lead	NELAP	NY	11/16/2012
EPA 6010	C, D	Magnesium	NELAP	NY	11/16/2012
EPA 6010	C, D	Manganese	NELAP	NY	11/16/2012
EPA 6010	C, D	Molybdenum	NELAP	NY	11/16/2012
EPA 6010	C, D	Nickel	NELAP	NY	11/16/2012
EPA 6010	C, D	Potassium	NELAP	NY	11/16/2012
EPA 6010	C, D	Selenium	NELAP	NY	11/16/2012

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 6010	C, D	Silver	NELAP	NY	11/16/2012
EPA 6010	C, D	Sodium	NELAP	NY	11/16/2012
EPA 6010	C, D	Strontium	NELAP	NY	11/04/2010
EPA 6010	C, D	Thallium	NELAP	NY	11/16/2012
EPA 6010	C, D	Tin	NELAP	NY	11/16/2012
EPA 6010	C, D	Titanium	NELAP	NY	11/16/2012
EPA 6010	C, D	Vanadium	NELAP	NY	11/16/2012
EPA 6010	C, D	Zinc	NELAP	NY	11/16/2012
EPA 7.3.3.2		Reactive cyanide	NELAP	PA	10/31/2016
EPA 7.3.4.2		Reactive sulfide	NELAP	PA	10/31/2016
EPA 7196	A	Chromium VI	NELAP	NY	04/01/2013
EPA 7471	B	Mercury	NELAP	NY	04/01/2013
EPA 8015	D	Nonhalogenated organics by GC/FID	NELAP	NY	11/14/2013
EPA 8015	D	Diesel-range organics (DRO)	NELAP	NY	11/04/2010
EPA 8015	D	Ethylene glycol	NELAP	NY	11/04/2010
EPA 8015	D	Gasoline-range organics (GRO)	NELAP	NY	11/04/2010
EPA 8015	D	Isobutyl alcohol (2-Methyl-1-propanol)	NELAP	NY	11/14/2018
EPA 8081	B	Organochlorine pesticides by GC/ECD	NELAP	NY	11/14/2013
EPA 8081	B	4,4'-DDD	NELAP	NY	11/21/2006
EPA 8081	B	4,4'-DDE	NELAP	NY	11/21/2006
EPA 8081	B	4,4'-DDT	NELAP	NY	11/21/2006
EPA 8081	B	Aldrin (HHDN)	NELAP	NY	11/21/2006
EPA 8081	B	Chlordane (tech.)	NELAP	NY	11/21/2006
EPA 8081	B	Dieldrin	NELAP	NY	11/21/2006
EPA 8081	B	Endosulfan I	NELAP	NY	11/21/2006
EPA 8081	B	Endosulfan II	NELAP	NY	11/21/2006
EPA 8081	B	Endosulfan sulfate	NELAP	NY	11/21/2006
EPA 8081	B	Endrin	NELAP	NY	11/21/2006
EPA 8081	B	Endrin aldehyde	NELAP	NY	11/21/2006
EPA 8081	B	Endrin ketone	NELAP	NY	11/04/2010
EPA 8081	B	Heptachlor	NELAP	NY	11/21/2006
EPA 8081	B	Heptachlor epoxide	NELAP	NY	11/21/2006
EPA 8081	B	Methoxychlor	NELAP	NY	11/21/2006
EPA 8081	B	Mirex	NELAP	NY	10/31/2016
EPA 8081	B	Toxaphene (Chlorinated camphene)	NELAP	NY	11/21/2006
EPA 8081	B	alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	alpha-Chlordane	NELAP	NY	11/16/2012
EPA 8081	B	beta-BHC (beta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	delta-BHC (delta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081	B	gamma-Chlordane	NELAP	NY	11/16/2012

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8082	A	PCBs by GC/ECD	NELAP	NY	11/14/2013
EPA 8082	A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ 206)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ 195)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ 170)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,3',4,4'-Hexachlorobiphenyl (BZ 128)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ 187)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ 183)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',5'-Hexachlorobiphenyl (BZ 138)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ 180)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ 184)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,4,5'-Pentachlorobiphenyl (BZ 87)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',3,5'-Tetrachlorobiphenyl (BZ 44)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',4,4',5,5'-Hexachlorobiphenyl (BZ 153)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',4,5'-Tetrachlorobiphenyl (BZ 49)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',4,5,5'-Pentachlorobiphenyl (BZ 101)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',5,5'-Tetrachlorobiphenyl (BZ 52)	NELAP	NY	11/14/2018
EPA 8082	A	2,2',5-Trichlorobiphenyl (BZ 18)	NELAP	NY	11/14/2018
EPA 8082	A	2,3',4,4',5-Pentachlorobiphenyl (BZ 118)	NELAP	NY	11/14/2018
EPA 8082	A	2,3',4,4'-Tetrachlorobiphenyl (BZ 66)	NELAP	NY	11/14/2018
EPA 8082	A	2,3,3',4,4'-Pentachlorobiphenyl (BZ 105)	NELAP	NY	11/14/2018
EPA 8082	A	2,4'-Dichlorobiphenyl (BZ 8)	NELAP	NY	11/14/2018
EPA 8082	A	2,4,4'-Trichlorobiphenyl (BZ 28)	NELAP	NY	11/14/2018
EPA 8082	A	Aroclor-1016 (PCB-1016)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1221 (PCB-1221)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1232 (PCB-1232)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1242 (PCB-1242)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1248 (PCB-1248)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1254 (PCB-1254)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1260 (PCB-1260)	NELAP	NY	11/21/2006
EPA 8082	A	Decachlorobiphenyl	NELAP	NY	11/14/2018
EPA 8141	B	Organophosphorus compounds by GC/NPD	NELAP	NY	11/14/2013
EPA 8141	B	Azinphos-methyl (Guthion)	NELAP	NY	11/21/2006
EPA 8141	B	Diazinon (Spectracide)	NELAP	NY	11/21/2006
EPA 8141	B	Disulfoton	NELAP	NY	11/21/2006
EPA 8141	B	Malathion	NELAP	NY	11/21/2006
EPA 8141	B	Simazine	NELAP	NY	01/20/2010
EPA 8151	A	Chlorinated herbicides by GC/ECD	NELAP	NY	11/14/2013
EPA 8151	A	2,4,5-T	NELAP	NY	11/21/2006
EPA 8151	A	2,4,5-TP (Silvex)	NELAP	NY	11/21/2006
EPA 8151	A	2,4-D	NELAP	NY	11/21/2006
EPA 8151	A	2,4-DB (Butoxon)	NELAP	NY	01/20/2010
EPA 8151	A	Dalapon (2,2-Dichloropropionic acid)	NELAP	NY	11/04/2010

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8151	A	Dicamba	NELAP	NY	11/21/2006
EPA 8151	A	Dichloroprop (Dichlorprop)	NELAP	NY	01/20/2010
EPA 8151	A	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	NY	11/04/2010
EPA 8151	A	MCPA	NELAP	NY	01/20/2010
EPA 8151	A	MCPP (Mecoprop)	NELAP	NY	01/20/2010
EPA 8151	A	Pentachlorophenol (PCP)	NELAP	NY	11/16/2012
EPA 8260	C	VOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8260	D	VOCs by GC/MS	NELAP	NY	11/06/2019
EPA 8260	C, D	1,1,1-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1,2,2-Tetrachloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1,2-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,1-Dichloropropene	NELAP	NY	01/20/2010
EPA 8260	C, D	1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	NY	11/04/2010
EPA 8260	C, D	1,2,4-Trichlorobenzene	NELAP	NY	11/16/2012
EPA 8260	C, D	1,2,4-Trimethylbenzene	NELAP	NY	11/04/2010
EPA 8260	C, D	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	01/20/2010
EPA 8260	C, D	1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,2-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,2-Dichloropropane	NELAP	NY	11/21/2006
EPA 8260	C, D	1,3,5-Trimethylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,3-Dichloropropane	NELAP	NY	01/20/2010
EPA 8260	C, D	1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260	C, D	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	01/20/2010
EPA 8260	C, D	2,2-Dichloropropane	NELAP	NY	01/20/2010
EPA 8260	C, D	2-Butanone (Methyl ethyl ketone, MEK)	NELAP	NY	01/20/2010
EPA 8260	C, D	2-Chlorotoluene	NELAP	NY	01/20/2010
EPA 8260	C, D	2-Hexanone	NELAP	NY	01/20/2010
EPA 8260	C, D	2-Nitropropane	NELAP	NY	11/03/2020
EPA 8260	C, D	4-Chlorotoluene	NELAP	NY	01/20/2010
EPA 8260	C, D	4-Methyl-2-pentanone (MIBK)	NELAP	NY	11/04/2010
EPA 8260	C, D	Acetone	NELAP	NY	11/04/2010
EPA 8260	C, D	Acrolein (Propenal)	NELAP	NY	11/21/2006
EPA 8260	C, D	Acrylonitrile	NELAP	NY	11/21/2006
EPA 8260	C, D	Benzene	NELAP	NY	11/21/2006
EPA 8260	C, D	Bromobenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	Bromochloromethane	NELAP	NY	01/20/2010
EPA 8260	C, D	Bromodichloromethane	NELAP	NY	11/21/2006
EPA 8260	C, D	Bromoform	NELAP	NY	11/21/2006

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pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8260	C, D	Carbon disulfide	NELAP	NY	01/20/2010
EPA 8260	C, D	Carbon tetrachloride	NELAP	NY	11/21/2006
EPA 8260	C, D	Chlorobenzene	NELAP	NY	11/21/2006
EPA 8260	C, D	Chloroethane	NELAP	NY	11/21/2006
EPA 8260	C, D	Chloroform	NELAP	NY	11/21/2006
EPA 8260	C, D	Dibromochloromethane	NELAP	NY	11/21/2006
EPA 8260	C, D	Dibromomethane	NELAP	NY	01/20/2010
EPA 8260	C, D	Dichlorodifluoromethane (Freon 12)	NELAP	NY	11/21/2006
EPA 8260	C, D	Diethyl ether (Ethyl ether)	NELAP	NY	11/14/2018
EPA 8260	C, D	Ethylbenzene	NELAP	NY	11/21/2006
EPA 8260	C, D	Isopropylbenzene (Cumene)	NELAP	NY	01/20/2010
EPA 8260	C, D	Methyl bromide (Bromomethane)	NELAP	NY	11/21/2006
EPA 8260	C, D	Methyl chloride (Chloromethane)	NELAP	NY	11/21/2006
EPA 8260	C, D	Methyl tert-butyl ether (MTBE)	NELAP	NY	01/20/2010
EPA 8260	C, D	Methylene chloride (Dichloromethane)	NELAP	NY	11/21/2006
EPA 8260	C, D	Naphthalene	NELAP	NY	11/16/2012
EPA 8260	C, D	Styrene	NELAP	NY	01/20/2010
EPA 8260	C, D	Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	11/21/2006
EPA 8260	C, D	Tetrahydrofuran (THF)	NELAP	NY	11/14/2018
EPA 8260	C, D	Toluene	NELAP	NY	11/21/2006
EPA 8260	C, D	Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	11/21/2006
EPA 8260	C, D	Trichlorofluoromethane (Freon 11)	NELAP	NY	11/21/2006
EPA 8260	C, D	Vinyl acetate	NELAP	NY	11/14/2018
EPA 8260	C, D	Vinyl chloride (Chloroethene)	NELAP	NY	11/21/2006
EPA 8260	C, D	Xylenes, total	NELAP	NY	11/21/2006
EPA 8260	C, D	cis-1,2-Dichloroethene	NELAP	NY	01/20/2010
EPA 8260	C, D	cis-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260	C, D	n-Butylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	n-Propylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	sec-Butylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	tert-Butyl alcohol (2-Methyl-2-propanol)	NELAP	NY	11/16/2012
EPA 8260	C, D	tert-Butylbenzene	NELAP	NY	01/20/2010
EPA 8260	C, D	trans-1,2-Dichloroethene	NELAP	NY	01/20/2010
EPA 8260	C, D	trans-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260	C, D	trans-1,4-Dichloro-2-butene	NELAP	NY	01/20/2010
EPA 8260	D	1,1,1,2-Tetrachloroethane	NELAP	NY	11/06/2019
EPA 8260	D	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NELAP	NY	11/06/2019
EPA 8260	D	1,2,3-Trichlorobenzene	NELAP	NY	11/06/2019
EPA 8260	D	1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	NY	11/06/2019
EPA 8260	D	Cyclohexane	NELAP	NY	11/06/2019
EPA 8260	D	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/06/2019
EPA 8260	D	Methyl acetate	NELAP	NY	11/06/2019

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8260	D	Methylcyclohexane	NELAP	NY	11/06/2019
EPA 8260	D	m+p-Xylene	NELAP	NY	11/06/2019
EPA 8260	D	o-Xylene	NELAP	NY	11/06/2019
EPA 8260	D	p-Isopropyltoluene (4-Isopropyltoluene)	NELAP	NY	11/06/2019
EPA 8270	D	SOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8270	E	SOCs by GC/MS	NELAP	NY	11/03/2020
EPA 8270	D, E	1,2,4,5-Tetrachlorobenzene	NELAP	NY	11/16/2012
EPA 8270	D, E	1,2,4-Trichlorobenzene	NELAP	NY	11/21/2006
EPA 8270	D, E	1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270	D, E	1,2-Diphenylhydrazine	NELAP	NY	11/16/2012
EPA 8270	D, E	1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270	D, E	1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270	D, E	2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl) ether)	NELAP	NY	12/10/2015
EPA 8270	D, E	2,3,4,6-Tetrachlorophenol	NELAP	NY	11/16/2012
EPA 8270	D, E	2,4,5-Trichlorophenol	NELAP	NY	11/04/2010
EPA 8270	D, E	2,4,6-Trichlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dichlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dimethylphenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dinitrophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2,4-Dinitrotoluene (2,4-DNT)	NELAP	NY	11/21/2006
EPA 8270	D, E	2,6-Dichlorophenol	NELAP	NY	11/14/2018
EPA 8270	D, E	2,6-Dinitrotoluene (2,6-DNT)	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Chloronaphthalene	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Chlorophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	NELAP	NY	11/21/2006
EPA 8270	D, E	2-Methylnaphthalene	NELAP	NY	11/04/2010
EPA 8270	D, E	2-Methylphenol (o-Cresol)	NELAP	NY	01/20/2010
EPA 8270	D, E	2-Nitroaniline	NELAP	NY	01/20/2010
EPA 8270	D, E	2-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	3+4-Methylphenol (m+p-Cresol)	NELAP	NY	11/16/2012
EPA 8270	D, E	3,3'-Dichlorobenzidine	NELAP	NY	01/20/2010
EPA 8270	D, E	3-Nitroaniline	NELAP	NY	01/20/2010
EPA 8270	D, E	4-Bromophenyl phenyl ether	NELAP	NY	01/20/2010
EPA 8270	D, E	4-Chloro-3-methylphenol	NELAP	NY	11/21/2006
EPA 8270	D, E	4-Chloroaniline	NELAP	NY	01/20/2010
EPA 8270	D, E	4-Chlorophenyl phenyl ether	NELAP	NY	01/20/2010
EPA 8270	D, E	4-Nitroaniline	NELAP	NY	01/20/2010
EPA 8270	D, E	4-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270	D, E	Acenaphthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Acenaphthylene	NELAP	NY	11/21/2006

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8270	D, E	Acetophenone	NELAP	NY	11/04/2010
EPA 8270	D, E	Aniline	NELAP	NY	11/16/2012
EPA 8270	D, E	Anthracene	NELAP	NY	11/21/2006
EPA 8270	D, E	Atrazine	NELAP	NY	05/13/2019
EPA 8270	D, E	Benzidine	NELAP	NY	01/20/2010
EPA 8270	D, E	Benzo[a]anthracene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[a]pyrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[b]fluoranthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[ghi]perylene	NELAP	NY	11/21/2006
EPA 8270	D, E	Benzo[k]fluoranthene	NELAP	NY	08/11/2011
EPA 8270	D, E	Benzoic acid	NELAP	NY	11/20/2017
EPA 8270	D, E	Benzyl alcohol	NELAP	NY	11/16/2012
EPA 8270	D, E	Benzyl butyl phthalate (Butyl benzyl phthalate)	NELAP	NY	11/21/2006
EPA 8270	D, E	Carbazole	NELAP	NY	01/20/2010
EPA 8270	D, E	Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/21/2006
EPA 8270	D, E	Di-n-butyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Di-n-octyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Dibenzo[a,h]anthracene	NELAP	NY	11/21/2006
EPA 8270	D, E	Dibenzofuran	NELAP	NY	01/20/2010
EPA 8270	D, E	Diethyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Dimethyl phthalate	NELAP	NY	11/21/2006
EPA 8270	D, E	Fluoranthene	NELAP	NY	11/21/2006
EPA 8270	D, E	Fluorene	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachlorobenzene	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachlorocyclopentadiene	NELAP	NY	11/21/2006
EPA 8270	D, E	Hexachloroethane	NELAP	NY	11/21/2006
EPA 8270	D, E	Indeno(1,2,3-cd)pyrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Isophorone	NELAP	NY	11/21/2006
EPA 8270	D, E	N-Nitrosodi-n-propylamine	NELAP	NY	01/20/2010
EPA 8270	D, E	N-Nitrosodimethylamine	NELAP	NY	01/20/2010
EPA 8270	D, E	N-Nitrosodiphenylamine	NELAP	NY	01/20/2010
EPA 8270	D, E	Naphthalene	NELAP	NY	11/21/2006
EPA 8270	D, E	Nitrobenzene	NELAP	NY	11/21/2006
EPA 8270	D, E	Parathion, ethyl (Ethyl parathion, Parathion)	NELAP	NY	10/28/2015
EPA 8270	D, E	Pentachloronitrobenzene (PCNB)	NELAP	NY	01/20/2010
EPA 8270	D, E	Pentachlorophenol (PCP)	NELAP	NY	11/21/2006
EPA 8270	D, E	Phenanthrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Phenol	NELAP	NY	11/21/2006
EPA 8270	D, E	Pyrene	NELAP	NY	11/21/2006
EPA 8270	D, E	Pyridine	NELAP	NY	11/04/2010
EPA 8270	D, E	bis(2-Chloroethoxy)methane	NELAP	NY	11/21/2006

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Attached to Certificate of Accreditation 015-001 expiration date 11/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8270	D, E	bis(2-Chloroethyl) ether	NELAP	NY	01/20/2010
EPA 8270	D, E	bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	11/21/2006
EPA 8270	E	1,1'-Biphenyl (Biphenyl, Lemonene)	NELAP	NY	11/03/2020
EPA 8270	E	Benzaldehyde	NELAP	NY	11/03/2020
EPA 8270	E	Caprolactam	NELAP	NY	11/03/2020
EPA 8270 SIM	D	SOCs by GC/MS	NELAP	NY	07/26/2019
EPA 8270 SIM	E	SOCs by GC/MS	NELAP	NY	11/03/2020
EPA 8270 SIM	D	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	11/14/2018
EPA 8270 SIM	D	Acenaphthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Acenaphthylene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Anthracene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[a]anthracene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[a]pyrene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[b]fluoranthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[ghi]perylene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Benzo[k]fluoranthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Chrysene (Benzo[a]phenanthrene)	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Dibenzo[a,h]anthracene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Fluoranthene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Fluorene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Indeno(1,2,3-cd)pyrene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Naphthalene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Phenanthrene	NELAP	NY	03/09/2016
EPA 8270 SIM	D	Pyrene	NELAP	NY	03/09/2016
EPA 8270 SIM	E	1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Acenaphthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Acenaphthylene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Anthracene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[a]anthracene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[a]pyrene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[b]fluoranthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[ghi]perylene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Benzo[k]fluoranthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Dibenzo[a,h]anthracene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Fluoranthene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Fluorene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Indeno(1,2,3-cd)pyrene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Naphthalene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Phenanthrene	NELAP	NY	11/03/2020
EPA 8270 SIM	E	Pyrene	NELAP	NY	11/03/2020
EPA 8315	A	Carbonyl compounds by HPLC	NELAP	NY	11/14/2013

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

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Phoenix Environmental Laboratories Inc
587 East Middle Turnpike
Manchester, CT 06040
(860) 645-1102

DEP Laboratory ID: 68-03530
EPA Lab Code: CT00007
TNI Code: TNI01678
PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 8315	A	Formaldehyde	NELAP	NY	11/04/2010
EPA 9010	C	Cyanide distillation	NELAP	NY	04/01/2013
EPA 9012	B	Total cyanide	NELAP	NY	04/01/2013
EPA 9030	B	Sulfide distillation	NELAP	NY	10/31/2016
EPA 9034		Sulfide	NELAP	NY	10/31/2016
EPA 9045	D	pH	NELAP	NY	04/01/2013
EPA 9056	A	Anions by IC	NELAP	NY	01/20/2010
EPA 9056	A	Bromide	NELAP	NY	11/14/2013
EPA 9056	A	Chloride	NELAP	NY	01/20/2010
EPA 9056	A	Fluoride	NELAP	NY	11/14/2013
EPA 9056	A	Nitrate as N	NELAP	NY	01/20/2010
EPA 9056	A	Nitrite as N	NELAP	NY	01/20/2010
EPA 9060	A	Total organic carbon (TOC)	NELAP	NY	12/02/2014
EPA 9066		Total phenolics	NELAP	NY	11/16/2012
EPA 9071	B	Oil and grease	NELAP	NY	10/28/2015
EPA 9095	B	Paint filter liquids test	NELAP	NY	12/02/2014
EPA Lloyd Kahn Method		Total organic carbon (TOC)	NELAP	NY	11/14/2013

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New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 7/06/2021 until 6/30/2022

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.12750	Aroclor 1016	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12800	Aroclor 1221	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12850	Aroclor 1232	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12900	Aroclor 1242	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.12950	Aroclor 1248	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13000	Aroclor 1254	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13050	Aroclor 1260	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13100	Aroclor 1262	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.13150	Aroclor 1268	GC/ECD, LV PUF	EPA TO-10A	NY
Certified	Yes	AE04.17950	Acetone	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18250	Acrylonitrile	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18300	Allyl chloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18400	Benzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18450	Benzyl chloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18600	Bromodichloromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18650	Bromoform	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18700	Bromomethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18750	Butadiene (1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.18900	Carbon disulfide	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19000	Carbon tetrachloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19150	Chlorobenzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19200	Chloroethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19250	Chloroform	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19300	Chloromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19400	Chlorotoluene (2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19500	Cyclohexane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19600	Dibromo-3-chloropropane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19650	Dibromochloromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19700	Dibromoethane (1,2-) (EDB)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19750	Dichlorobenzene (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19800	Dichlorobenzene (1,3-)	GC/MS, Canisters	EPA TO-15	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 7/06/2021 until 6/30/2022

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.19850	Dichlorobenzene (1,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19900	Dichlorodifluoromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.19950	Dichloroethane (1,1-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20000	Dichloroethane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20050	Dichloroethene (1,1-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20100	Dichloroethene (cis-1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20150	Dichloroethene (trans-1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20250	Dichloropropane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20300	Dichloropropene (cis-1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20350	Dichloropropene (trans-1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20400	Dichlorotetrafluoroethane (1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20750	Dioxane (1,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.20900	Ethanol	GC/MS, Canisters	EPA TO-15	NJ
Certified	Yes	AE04.21100	Ethylbenzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21250	Ethyltoluene (4-)	GC/MS, Canisters	EPA TO-15	NJ
Certified	Yes	AE04.21400	Heptane (n-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21450	Hexachlorobutadiene (1,3-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21500	Hexachloroethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21550	Hexane (n-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21700	Isopropanol	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21750	Isopropylbenzene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21850	Methyl ethyl ketone (MEK)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.21950	Methyl isobutyl ketone (MIBK)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22050	Methyl methacrylate	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22100	Methyl tert-butyl ether	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22150	Methylene chloride (Dichloromethane)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.22300	Naphthalene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23150	Styrene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23250	Tert-butyl alcohol	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23350	Tetrachloroethane (1,1,2,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23400	Tetrachloroethene	GC/MS, Canisters	EPA TO-15	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 7/06/2021 until 6/30/2022

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.23450	Tetrahydrofuran	GC/MS, Canisters	EPA TO-15	NJ
Certified	Yes	AE04.23500	Toluene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23550	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23600	Trichlorobenzene (1,2,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23650	Trichloroethane (1,1,1-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23700	Trichloroethane (1,1,2-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23750	Trichloroethene	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.23800	Trichlorofluoromethane	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24050	Trimethylbenzene (1,2,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24100	Trimethylbenzene (1,3,5-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24150	Trimethylpentane (2,2,4-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24250	Vinyl bromide	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24300	Vinyl chloride	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24350	Xylene (m-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24400	Xylene (o-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24450	Xylene (p-)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.24500	Xylenes (total)	GC/MS, Canisters	EPA TO-15	NY
Certified	Yes	AE04.37850	Acetone	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.37900	Allyl chloride	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.37950	Benzene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38000	Bromodichloromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38050	Bromoform	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38100	Bromomethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38150	Butadiene (1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38200	Carbon disulfide	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38250	Carbon tetrachloride	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38300	Chlorobenzene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38350	Chloroethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38400	Chloroform	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38450	Chloromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38500	Chlorotoluene (2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 7/06/2021 until 6/30/2022

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.38550	Cyclohexane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38600	Dibromochloromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38650	Dibromoethane (1,2-) (EDB)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38700	Dichlorobenzene (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38750	Dichlorobenzene (1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38800	Dichlorobenzene (1,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38850	Dichlorodifluoromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38900	Dichloroethane (1,1-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.38950	Dichloroethane (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39000	Dichloroethene (1,1-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39050	Dichloroethene (cis-1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39100	Dichloroethene (trans-1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39150	Dichloropropane (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39200	Dichloropropene (cis-1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39250	Dichloropropene (trans-1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39300	Dichlorotetrafluoroethane (1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39350	Dioxane (1,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39400	Ethanol	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39450	Ethylbenzene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39500	Ethyltoluene (4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39550	Heptane (n-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39600	Hexachlorobutadiene (1,3-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39650	Hexane (n-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39700	Isopropanol	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39750	Methyl ethyl ketone (MEK)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39800	Methyl isobutyl ketone (MIBK)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39850	Methyl methacrylate	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39900	Methyl tert-butyl ether	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.39950	Methylene chloride (Dichloromethane)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40050	Styrene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40100	Tert-butyl alcohol	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

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Category: AE04 --Organics Analysis

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	AE04.40150	Tetrachloroethane (1,1,2,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40200	Tetrachloroethene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40250	Tetrahydrofuran	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40300	Toluene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40350	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40400	Trichlorobenzene (1,2,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40450	Trichloroethane (1,1,1-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40500	Trichloroethane (1,1,2-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40550	Trichloroethene	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40600	Trichlorofluoromethane	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40650	Trimethylbenzene (1,2,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40700	Trimethylbenzene (1,3,5-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40750	Trimethylpentane (2,2,4-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40800	Vinyl bromide	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40850	Vinyl chloride	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40900	Xylene (m- + p-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ
Certified	Yes	AE04.40950	Xylene (o-)	GC/MS, Canisters	Other NJDEP-LLTO-15-3/2009	NJ

Category: DW01 --Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW01.00350	Heterotrophic bacteria	Pour Plate	SM 9215 B	NY
Certified	Yes	DW01.00500	Total coliform / E. coli	ONPG-MUG (Autoanalysis Colilert System) (P-A)	SM 9223 B	NY
Certified	Yes	DW01.00550	Total coliform / E. coli	ONPG-MUG (Colilert/Colilert-18), Enumeration	SM 9223 B, Multi-well Procedure	NY
Applied	No	DW01.00600	Total coliform / E. coli	Membrane Filter, Enumeration	SM 9222 B/9222 G (mEndo/ LES-Endo-NA plus MUG)	NY

Category: DW03 --Inorganic Parameters

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Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW03.00050	Alkalinity	Electrometric Titration	SM 2320 B	NY
Certified	Yes	DW03.01800	Chloride	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.02550	Color	Platinum-Cobalt	SM 2120 B	NY
Certified	Yes	DW03.02700	Conductivity	Conductance	SM 2510 B	NY
Certified	Yes	DW03.03150	Cyanide	Spectrophotometric, Distill, Semi Automated	EPA 335.4	NY
Certified	Yes	DW03.03300	Dissolved organic carbon (DOC)	High Temp. Combustion, Filtration	SM 5310 B	NY
Certified	Yes	DW03.03750	Fluoride	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.03900	Fluoride	Manual Potentiometric Ion Select Electrode	SM 4500-F C	NY
Certified	Yes	DW03.03950	Foaming agents	Methylene Blue	SM 5540 C	NY
Certified	Yes	DW03.04000	Nitrate	Automated Cadmium Reduction	EPA 353.2	NY
Certified	Yes	DW03.04600	Nitrate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.05000	Nitrite	Automated Cadmium Reduction	EPA 353.2	NY
Certified	Yes	DW03.05450	Nitrite	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.05850	Odor	Consistent Series	SM 2150 B	NY
Certified	Yes	DW03.05950	Orthophosphate	Colorimetric	SM 4500-P E	NY
Certified	Yes	DW03.06150	Orthophosphate	Colorimetric, Automated, Ascorbic Acid	SM 4500-P F	NY
Certified	Yes	DW03.06850	Sulfate	Gravimetric	SM 4500-SO4 D	NY
Certified	Yes	DW03.06900	Sulfate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	DW03.07150	Total dissolved solids (TDS)	Gravimetric At 180	SM 2540 C	NY
Certified	Yes	DW03.07400	Total organic carbon (TOC)	High Temp. Combustion	SM 5310 B	NY
Certified	Yes	DW03.08100	Turbidity	Nephelometric	SM 2130 B	NY
Certified	Yes	DW03.08300	UV-absorbing compounds	Spectrophotometric, Calculation	SM 5910 B	NY

Category: DW06 --Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW06.00750	Antimony	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.00800	Arsenic	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01100	Lead	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01250	Selenium	AA, Platform Furnace	EPA 200.9	NY

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Category: DW06 --Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW06.01350	Thallium	AA, Platform Furnace	EPA 200.9	NY
Certified	Yes	DW06.01500	Mercury	Manual Cold Vapor	EPA 245.1	NY
Certified	Yes	DW06.02550	Antimony	AA, Graphite Furnace	SM 3113 B	NY
Certified	Yes	DW06.02600	Arsenic	AA, Graphite Furnace	SM 3113 B	NY
Certified	Yes	DW06.03050	Selenium	AA, Graphite Furnace	SM 3113 B	NY
Certified	Yes	DW06.03150	Lead	Graphite Furnace	SM 3113 B	NY

Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW07.00400	Copper	ICP - Axially Viewed	EPA 200.5	NY
Certified	Yes	DW07.00500	Lead	ICP - Axially Viewed	EPA 200.5	NY
Certified	Yes	DW07.00950	Aluminum	ICP	EPA 200.7	NY
Certified	Yes	DW07.01000	Barium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01050	Beryllium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01100	Boron	ICP	EPA 200.7	NY
Certified	Yes	DW07.01150	Cadmium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01200	Calcium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01250	Chromium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01350	Copper	ICP	EPA 200.7	NY
Certified	Yes	DW07.01400	Iron	ICP	EPA 200.7	NY
Certified	Yes	DW07.01500	Magnesium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01550	Manganese	ICP	EPA 200.7	NY
Certified	Yes	DW07.01600	Molybdenum	ICP	EPA 200.7	NY
Certified	Yes	DW07.01650	Nickel	ICP	EPA 200.7	NY
Certified	Yes	DW07.01700	Potassium	ICP	EPA 200.7	NY
Certified	Yes	DW07.01800	Silver	ICP	EPA 200.7	NY
Certified	Yes	DW07.01850	Sodium	ICP	EPA 200.7	NY
Certified	Yes	DW07.02050	Vanadium	ICP	EPA 200.7	NY

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Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW07.02100	Zinc	ICP	EPA 200.7	NY
Certified	Yes	DW07.02150	Aluminum	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02200	Antimony	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02250	Arsenic	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02300	Barium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02350	Beryllium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02400	Cadmium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02450	Chromium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02550	Copper	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02600	Lead	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02650	Manganese	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02750	Molybdenum	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02800	Nickel	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02850	Selenium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02900	Silver	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.02950	Thallium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03000	Uranium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03050	Vanadium	ICP/MS	EPA 200.8	NY
Certified	Yes	DW07.03100	Zinc	ICP/MS	EPA 200.8	NY

Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.03550	Dibromo-3-chloropropane (1,2-)	Solvent Extract, GC	EPA 504.1	NY
Certified	Yes	DW08.03600	Dibromoethane (1,2-) (EDB)	Solvent Extract, GC	EPA 504.1	NY
Certified	Yes	DW08.03650	Trichloropropane (1,2,3-)	Solvent Extract, GC	EPA 504.1	NY
Certified	Yes	DW08.07150	PCB 1016	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07200	PCB 1221	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07250	PCB 1232	GC, Extract, ECD, Screen	EPA 508	NY

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Category: DW08 --Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW08.07300	PCB 1242	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07350	PCB 1248	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07400	PCB 1254	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.07450	PCB 1260	GC, Extract, ECD, Screen	EPA 508	NY
Certified	Yes	DW08.11200	D (2,4-)	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11250	Dalapon	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11450	Dicamba	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11600	Dinoseb	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11750	Pentachlorophenol	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11800	Picloram	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.11900	TP (2,4,5-) (Silvex)	Liquid/Liquid Extraction/GC	EPA 515.3	NY
Certified	Yes	DW08.13300	Aldicarb	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13350	Aldicarb sulfone	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13400	Aldicarb sulfoxide	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13450	Carbaryl	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13500	Carbofuran (furadan)	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13550	Hydroxy carbofuran (3-)	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13650	Methomyl (Lannate)	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13700	Oxamyl	HPLC	EPA 531.2	NY
Certified	Yes	DW08.13900	Glyphosate	HPLC	EPA 547	NY
Certified	Yes	DW08.14000	Diquat	HPLC	EPA 549.2	NY
Certified	Yes	DW08.17550	Bromochloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17750	Dibromoacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17800	Dichloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17850	Monobromoacetic acid (MBAA)	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.17900	Monochloroacetic acid (MCAA)	Liquid/Liquid Extraction/GC	EPA 552.2	NY
Certified	Yes	DW08.18000	Trichloroacetic acid	Liquid/Liquid Extraction/GC	EPA 552.2	NY

Category: DW09 --Organic Parameters - Chromatography/MS

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Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.11400	Dioxane (1,4-)	SPE, GC/MS/SIM	EPA 522	NY
Certified	Yes	DW09.11600	Benzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11650	Bromobenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11700	Bromochloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11750	Bromodichloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11800	Bromoform	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11850	Bromomethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.11950	Butylbenzene (n-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12050	Carbon tetrachloride	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12150	Chlorobenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12250	Chloroethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12300	Chloroform	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12350	Chloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12400	Chlorotoluene (2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12450	Chlorotoluene (4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12550	Dibromochloromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12650	Dibromomethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12750	Dichlorobenzene (1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12800	Dichlorobenzene (1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12850	Dichlorobenzene (1,4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12900	Dichlorodifluoromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.12950	Dichloroethane (1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13000	Dichloroethane (1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13050	Dichloroethene (1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13100	Dichloroethene (cis-1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13150	Dichloroethene (trans-1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13200	Dichloropropane (1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13250	Dichloropropane (1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13300	Dichloropropane (2,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13400	Dichloropropene (1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13450	Dichloropropene (cis-1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13500	Dichloropropene (trans-1,3-)	GC/MS, P & T	EPA 524.2	NY

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Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.13700	Ethylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.13800	Hexachlorobutadiene (1,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14000	Isopropylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14050	Isopropyltoluene (4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14300	Methyl tert-butyl ether	GC/MS, P & T	EPA 524.2	NY
Applied	No	DW09.14350	Methylene chloride (Dichloromethane)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14400	Naphthalene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14700	Propylbenzene (n-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14750	Sec-butylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14800	Styrene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.14950	Tert-butylbenzene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15000	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15050	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15100	Tetrachloroethene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15200	Toluene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15250	Trichlorobenzene (1,2,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15300	Trichlorobenzene (1,2,4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15400	Trichloroethane (1,1,1-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15450	Trichloroethane (1,1,2-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15500	Trichloroethene	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.15550	Trichlorofluoromethane	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16000	Trichloropropane (1,2,3-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16050	Trimethylbenzene (1,2,4-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16100	Trimethylbenzene (1,3,5-)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16150	Vinyl chloride	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.16300	Xylenes (total)	GC/MS, P & T	EPA 524.2	NY
Certified	Yes	DW09.27350	Alachlor	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27400	Atrazine	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27450	Benzo(a)pyrene	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27500	Chlordane (technical)	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27550	Di(2-ethylhexyl)adipate	SPE, GC/MS	EPA 525.3	NY

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Category: DW09 --Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	DW09.27600	Di(2-ethylhexyl)phthalate	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27650	Endrin	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27700	Heptachlor	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27750	Heptachlor epoxide	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27800	Hexachlorobenzene	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27850	Hexachlorocyclopentadiene	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27900	Lindane (gamma BHC)	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.27950	Methoxychlor	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.28100	Simazine	SPE, GC/MS	EPA 525.3	NY
Certified	Yes	DW09.28150	Toxaphene	SPE, GC/MS	EPA 525.3	NY

Category: NPW01--Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW01.00200	Enterococci	Multiple Tube/Mutiple Well - Enterolert	Other IDEXX Laboratories	NY
Certified	Yes	NPW01.00750	Escherichia coli (E coli)	MPN/Multiple Tube/Multiple Well	Other Colilert-04	NY
Certified	Yes	NPW01.01100	E. coli (ambient water only)	Membrane Filter	SM 9222 B-06/9222 G-06	NY
Certified	Yes	NPW01.01300	Fecal coliform	Multiple Tube/Mutiple Well	Other Colilert-18-04	NY
Certified	Yes	NPW01.01650	Fecal coliform	Membrane Filter (MF), Single Step	SM 9222 D-06	NY
Certified	Yes	NPW01.02100	Heterotrophic plate count	Pour Plate	SM 9215 B-04	NY
Certified	Yes	NPW01.02800	Total coliform	MF Single Step or Two Step	SM 9222 B-06	NY

Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.00100	Acidity as CaCO3	Electrometric or Phenolphthalein	SM 2310 B-11	NY
Certified	Yes	NPW03.00350	Alkalinity as CaCO3	Electrometric Titration	SM 2320 B-11	NY

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Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.01100	Ammonia	Distillation or Gas Diffusion, Semi-automated Phenate	EPA 350.1	NY
Certified	Yes	NPW03.01550	Biochemical oxygen demand	Dissolved Oxygen Depletion - Membrane Electrode	SM 5210 B-11	NY
Certified	Yes	NPW03.02400	Bromide	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.02900	Carbonaceous BOD (CBOD)	Diss. Oxygen Depl., Nitrif. Inhib. - Membrane Electrode	SM 5210 B-11	NY
Certified	Yes	NPW03.03600	Chemical oxygen demand	Spectrophotometric Manual/Auto	SM 5220 D-11	NY
Certified	Yes	NPW03.04550	Chloride	Colorimetric, Automated (Ferricyanide)	SM 4500-Cl E-11	NY
Certified	Yes	NPW03.04900	Chloride	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.06000	Color	Colorimetric (Platinum-Cobalt)	SM 2120 B-11	NY
Certified	Yes	NPW03.06750	Cyanide	Distillation, Spectrophotometric (Auto)	EPA 335.4	NY
Certified	Yes	NPW03.06850	Cyanide	Colorimetric, Automated	SW-846 9012B	NY
Certified	Yes	NPW03.07200	Cyanide	Distillation	SW-846 9010C	NY
Certified	Yes	NPW03.09400	Kjeldahl nitrogen - total	Auto Digestion, Auto Distillation, Auto Phenate	EPA 351.1	NY
Certified	Yes	NPW03.11050	Nitrate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.11950	Nitrate - nitrite	Cadmium Reduction, Automated	EPA 353.2	NY
Certified	Yes	NPW03.12450	Nitrate - nitrite	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.13100	Nitrite	Auto, bypass Cd reduction	EPA 353.2	NY
Certified	Yes	NPW03.13650	Nitrite	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.14100	Oil & grease - hem-LL	Gravimetric, Hexane Extractable Material-LL	EPA 1664A	NY
Certified	Yes	NPW03.14300	Oil & grease - hem-SPE	Gravimetric, Hexane Extractable Material-SPE	EPA 1664B	NY
Certified	Yes	NPW03.14500	Oil & grease - sgt-non polar	Gravimetric, Silica Gel Treated-Hem-SPE	EPA 1664A	NY
Certified	Yes	NPW03.14850	Organic nitrogen	Total Kjeldahl-N Minus Ammonia-N	EPA TKN - NH3 method references	NY
Certified	Yes	NPW03.15050	Orthophosphate	Ascorbic Acid, Automated	SM 4500-P F-11	NY
Certified	Yes	NPW03.15350	Orthophosphate	Ascorbic Acid, Manual Single Reagent	SM 4500-P E-11	NY
Certified	Yes	NPW03.16850	Phenols	Manual Distillation, Colorimetric Auto	EPA 420.4	NY
Certified	Yes	NPW03.17150	Phosphorus (total)	Persulfate Digestion + Manual	SM 4500-P B5-11 plus E-11	NY
Certified	Yes	NPW03.17850	Residue - filterable (TDS)	Gravimetric, 180 Degrees C	SM 2540 C-11	NY
Certified	Yes	NPW03.18000	Residue - nonfilterable (TSS)	Gravimetric, 103-105 Degrees C, Post Washing	SM 2540 D-11	NY
Certified	Yes	NPW03.18100	Residue - settleable	Volumetric (Imhoff Cone) or Gravimetric	SM 2540 F-11	NY
Certified	Yes	NPW03.18150	Residue - total	Gravimetric, 103-105 Degrees C	SM 2540 B-11	NY
Certified	Yes	NPW03.18300	Residue - volatile	Gravimetric, 550 Degrees C	SM 2540 E-11	NY

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Category: NPW03--Inorganic Parameters

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW03.18800	Specific conductance	Wheatstone Bridge	SM 2510 B-11	NY
Certified	Yes	NPW03.19650	Sulfate	Gravimetric	SM 4500-SO4 D-11	NY
Certified	Yes	NPW03.19850	Sulfate	Ion Chromatography	EPA 300.0	NY
Certified	Yes	NPW03.20500	Sulfides	Colorimetric (Methylene Blue)	SM 4500-S B, C plus D-11	NY
Certified	Yes	NPW03.20750	Surfactants	Colorimetric (Methylene Blue)	SM 5540 C-11	NY
Certified	Yes	NPW03.21110	Total organic carbon (TOC)	Combustion	SM 5310 B-11	NY
Certified	Yes	NPW03.22150	Turbidity	Nephelometric	SM 2130 B-11	NY

Category: NPW06--Metals - NPW Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW06.00200	Metals, Total Rec and Dissolved	Acid Digestion/Surface and Groundwater	SW-846 3005A	NY
Certified	Yes	NPW06.00250	Metals, Total	Acid Digestion/Aqueous Samples	SW-846 3010A	NY
Certified	Yes	NPW06.00350	Metals	Acid Digestion/Aqueous	SW-846 3020A	NY

Category: NPW07--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW07.03100	Thallium	Digestion, Platform Furnace	EPA 200.9	NY
Certified	Yes	NPW07.03350	Mercury	Manual Cold Vapor	EPA 245.1	NY
Certified	Yes	NPW07.07300	Antimony	Digestion, AA Furnace	SM 3113 B-10	NY
Certified	Yes	NPW07.07350	Arsenic	Digestion, AA Furnace	SM 3113 B-10	NY
Certified	Yes	NPW07.07500	Cadmium	Digestion, AA Furnace	SM 3113 B-04	NY
Certified	Yes	NPW07.07750	Lead	Digestion, AA Furnace	SM 3113 B-10	NY
Certified	Yes	NPW07.07950	Selenium	Digestion, AA Furnace	SM 3113 B-10	NY
Certified	Yes	NPW07.08000	Silver	Digestion, AA Furnace	SM 3113 B-10	NY
Certified	Yes	NPW07.08050	Thallium	Digestion, AA Furnace	SM 3113 B-10	NY

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Category: NPW07--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW07.08650	Chromium (VI)	0.45u Filter, Colorimetric DPC	SM 3500-Cr B-11	NY
Certified	Yes	NPW07.10800	Antimony	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.10850	Arsenic	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11000	Cadmium	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11250	Lead	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11450	Selenium	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11500	Silver	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11550	Thallium	AA, Graphite Furnace	SW-846 7010	NY
Certified	Yes	NPW07.11950	Chromium (VI)	Colorimetric	SW-846 7196A	NY
Certified	Yes	NPW07.12150	Mercury - liquid waste	AA, Manual Cold Vapor	SW-846 7470A	NY

Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.04150	Aluminum	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04200	Antimony	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04250	Arsenic	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04300	Barium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04350	Beryllium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04400	Boron	ICP	EPA 200.7	NY
Certified	Yes	NPW08.04450	Cadmium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04500	Calcium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04550	Chromium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04600	Cobalt	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04650	Copper	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04700	Iron	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04750	Lead	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04850	Magnesium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.04900	Manganese	Digestion, ICP	EPA 200.7	NY

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Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.04950	Molybdenum	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05000	Nickel	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05050	Phosphorus (total)	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05100	Potassium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05150	Selenium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05250	Silver	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05300	Sodium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05350	Strontium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05400	Thallium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05450	Tin	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05500	Titanium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05550	Vanadium	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05600	Zinc	Digestion, ICP	EPA 200.7	NY
Certified	Yes	NPW08.05650	Aluminum	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05700	Antimony	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05750	Arsenic	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05800	Barium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05850	Beryllium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.05950	Cadmium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06000	Calcium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06050	Chromium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06100	Cobalt	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06150	Copper	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06200	Gold	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06250	Iron	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06300	Lead	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06350	Magnesium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06400	Manganese	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06450	Molybdenum	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06500	Nickel	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06550	Potassium	Digestion, ICP/MS	EPA 200.8	NY

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Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.06600	Selenium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06700	Silver	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06750	Sodium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06850	Thallium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.06950	Tin	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.07000	Titanium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.07150	Vanadium	Digestion, ICP/MS	EPA 200.8	NY
Certified	Yes	NPW08.07200	Zinc	Digestion, ICP/MS	EPA 200.8	NY
Applied	No	NPW08.09800	Hardness - total as CaCO3	Ca + Mg Carbonates, ICP	SM 2340 B-11	NY
Certified	Yes	NPW08.12800	Aluminum	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.12850	Antimony	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.12900	Arsenic	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.12950	Barium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13000	Beryllium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13050	Boron	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13100	Cadmium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13150	Calcium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13200	Chromium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13250	Cobalt	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13300	Copper	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13350	Iron	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13400	Lead	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13500	Magnesium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13550	Manganese	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13600	Molybdenum	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13650	Nickel	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13750	Potassium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13800	Selenium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13850	Silver	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13900	Sodium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.13950	Strontium	ICP	SW-846 6010D	NY

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Category: NPW08--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW08.14000	Thallium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14100	Tin	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14150	Titanium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14250	Vanadium	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14300	Zinc	ICP	SW-846 6010D	NY
Certified	Yes	NPW08.14400	Aluminum	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14450	Antimony	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14500	Arsenic	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14550	Barium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14600	Beryllium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14700	Cadmium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14750	Calcium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14800	Chromium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14850	Cobalt	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14900	Copper	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.14950	Iron	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15000	Lead	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15050	Magnesium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15100	Manganese	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15150	Molybdenum	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15200	Nickel	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15250	Potassium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15300	Selenium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15400	Silver	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15450	Sodium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15550	Thallium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15650	Tin	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15700	Titanium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15850	Vanadium	ICP/MS	SW-846 6020B	NY
Certified	Yes	NPW08.15900	Zinc	ICP/MS	SW-846 6020B	NY

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Category: NPW09--Organics - NPW Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW09.00500	Semivolatile organics	Separatory Funnel Extraction	SW-846 3510C	NY
Certified	Yes	NPW09.00600	Semivolatile organics	Continuous Liquid-Liquid Extraction	SW-846 3520C	NY
Certified	Yes	NPW09.00900	Semivolatile organics	Cleanup-Silica Gel	SW-846 3630C	NJ
Certified	Yes	NPW09.01550	Volatile organics	Purge & Trap Aqueous	SW-846 5030C	NY

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.19150	Aldrin	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.19200	Alpha BHC	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.19300	Beta BHC	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.19650	Chlordane	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20050	DDD (4,4'-)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20100	DDE (4,4'-)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20150	DDT (4,4'-)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20200	Delta BHC	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20350	Dieldrin	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20400	Endosulfan I	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20450	Endosulfan II	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20500	Endosulfan sulfate	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20550	Endrin	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20600	Endrin aldehyde	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20800	Heptachlor	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.20850	Heptachlor epoxide	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21000	Lindane (gamma BHC)	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21050	Methoxychlor	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21800	Toxaphene	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21900	PCB 1016	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.21950	PCB 1221	Extract/GC (ECD)	EPA 608.3	NY

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.22000	PCB 1232	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.22050	PCB 1242	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.22100	PCB 1248	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.22150	PCB 1254	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.22200	PCB 1260	Extract/GC (ECD)	EPA 608.3	NY
Certified	Yes	NPW10.31650	Extractable Petroleum Hydrocarbons	Extraction, GC, FID	Other NJDEP EPH 10/08, Rev. 3	NJ
Certified	Yes	NPW10.39250	Dibromo-3-chloropropane (1,2-)	Extract/GC (ECD)	SW-846 8011	NY
Certified	Yes	NPW10.39300	Dibromoethane (1,2-) (EDB)	Extract/GC (ECD)	SW-846 8011	NY
Certified	Yes	NPW10.39350	Trichloropropane (1,2,3-)	Extract/GC (ECD)	SW-846 8011	NY
Certified	Yes	NPW10.39800	Diesel range organic	Extraction, GC, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40000	Ethyl alcohol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40050	Ethylene glycol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40200	Gasoline range organic	GC P&T, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40300	Iso-butyl alcohol	GC, Direct Injection or P & T, FID	SW-846 8015D	NY
Certified	Yes	NPW10.40800	Propylene glycol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	NPW10.44600	Aldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44650	Alpha BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44750	Beta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44800	Chlordane (alpha) (cis-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44850	Chlordane (gamma) (trans-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.44900	Chlordane (technical)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45250	DDD (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45300	DDE (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45350	DDT (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45400	Delta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45450	Dieldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45500	Endosulfan I	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45550	Endosulfan II	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45600	Endosulfan sulfate	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45650	Endrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.45700	Endrin aldehyde	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45750	Endrin ketone	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45850	Heptachlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45900	Heptachlor epoxide	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.45950	Hexachlorobenzene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46050	Lindane (gamma BHC)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46100	Methoxychlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46450	Toxaphene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	NPW10.46650	Trichlorobiphenyl (2,2',5-) (PCB 18)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46750	Tetrachlorobiphenyl (2,2',3,5'-) (PCB 44)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46800	Tetrachlorobiphenyl (2,2',5,5'-) (PCB 52)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46850	Tetrachlorobiphenyl (2,3',4,4'-) (PCB 66)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46900	Pentachlorobiphenyl (2,2',3,4,5'-) (PCB 87)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.46950	Pentachlorobiphenyl (2,2',4,5,5'-) (PCB 101)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47050	Pentachlorobiphenyl (2,3',4,4',5-) (PCB 118)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47100	Hexachlorobiphenyl (2,2',3,3',4,4'-) (PCB 128)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47150	Hexachlorobiphenyl (2,2',3,4,4',5'-) (PCB 138)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47300	Hexachlorobiphenyl (2,2',4,4',5,5'-) (PCB 153)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47350	Heptachlorobiphenyl (2,2',3,3',4,4',5-) (PCB 170)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47400	Heptachlorobiphenyl (2,2',3,4,4',5,5'-) (PCB 180)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47450	Heptachlorobiphenyl (2,2',3,4,4',5',6-) (PCB 183)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47500	Heptachlorobiphenyl (2,2',3,4',5,5',6-) (PCB 187)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47550	Nonachlorobiphenyl (2,2',3,3',4,4',5,5',6-) (PCB 206)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW10--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW10.47600	PCB 1016	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47650	PCB 1221	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47700	PCB 1232	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47750	PCB 1242	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47800	PCB 1248	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47850	PCB 1254	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47900	PCB 1260	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.47950	PCB 1262	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.48000	PCB 1268	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	NPW10.52700	Atrazine	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.52750	Azinphos methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.53050	Diazinon	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.53250	Disulfoton	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.54500	Malathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.54900	Simazine	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	NPW10.55350	D (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55400	Dalapon	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55450	DB (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55550	Dicamba	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55650	Dichlorprop	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55700	Dinoseb	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.55950	Pentachlorophenol	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.56050	T (2,4,5-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.56100	TP (2,4,5-) (Silvex)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	NPW10.57050	Formaldehyde	HPLC, Extraction, Derivatization	SW-846 8315A	NY

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.38400	Acetone	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38500	Acrolein	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38550	Acrylonitrile	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38750	Benzene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.38900	Bromodichloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39000	Bromoform	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39050	Bromomethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39500	Carbon tetrachloride	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39550	Chlorobenzene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39600	Chloroethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39650	Chloroethyl vinyl ether (2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39700	Chloroform	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.39750	Chloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40100	Dibromochloromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40350	Dichlorobenzene (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40400	Dichlorobenzene (1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40450	Dichlorobenzene (1,4-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40500	Dichlorodifluoromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40550	Dichloroethane (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40600	Dichloroethane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40650	Dichloroethene (1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40700	Dichloroethene (cis-1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40750	Dichloroethene (trans-1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.40800	Dichloropropane (1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.41000	Dichloropropene (cis-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.41050	Dichloropropene (trans-1,3-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.41450	Ethylbenzene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.42450	Methyl tert-butyl ether	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.42550	Methylene chloride (Dichloromethane)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43000	Styrene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43300	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.43350	Tetrachloroethene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43450	Toluene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43500	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43650	Trichloroethane (1,1,1-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43700	Trichloroethane (1,1,2-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43750	Trichloroethene	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.43800	Trichlorofluoromethane	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44100	Vinyl chloride	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44150	Xylene (m- + p-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44250	Xylene (o-)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44350	Xylenes (total)	GC/MS, P & T, Capillary Column	EPA 624.1	NY
Certified	Yes	NPW11.44400	Acenaphthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44450	Acenaphthylene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44650	Alpha - terpineol	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44800	Aniline	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.44850	Anthracene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45200	Benzidine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45250	Benzo(a)anthracene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45300	Benzo(a)pyrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45350	Benzo(b)fluoranthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45400	Benzo(ghi)perylene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45500	Benzo(k)fluoranthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45700	Bis (2-chloroethoxy) methane	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45750	Bis (2-chloroethyl) ether	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45800	Bis(2-chloroisopropyl)ether|2,2'-oxybis(1-chloropropane)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.45850	Bis (2-ethylhexyl) phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46000	Bromophenyl-phenyl ether (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46050	Butylbenzylphthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46250	Carbazole	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46550	Chloronaphthalene (2-)	Extract, GC/MS	EPA 625.1	NY

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Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.46650	Chlorophenol (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46700	Chlorophenyl-phenyl ether (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.46900	Chrysene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47500	Dibenzo(a,h)anthracene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47750	Dichlorobenzidine (3,3'-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47800	Dichlorophenol (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.47950	Diethyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48100	Dimethyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48250	Dimethylphenol (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48300	Di-n-butyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48400	Dinitrophenol (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48450	Dinitrophenol (2-methyl-4,6-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48500	Dinitrotoluene (2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48550	Dinitrotoluene (2,6-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.48600	Di-n-octyl phthalate	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49250	Fluoranthene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49300	Fluorene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49350	Hexachlorobenzene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49400	Hexachlorobutadiene (1,3-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49450	Hexachlorocyclopentadiene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49500	Hexachloroethane	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49700	Indeno(1,2,3-cd)pyrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.49800	Isophorone	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50350	Methyl phenol (4-chloro-3-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50550	Methylphenol (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50600	Methylphenol (3-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50650	Methylphenol (4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.50950	Naphthalene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51300	Nitrobenzene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51350	Nitrophenol (2-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51400	Nitrophenol (4-)	Extract, GC/MS	EPA 625.1	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.51500	N-Nitrosodimethylamine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51550	N-Nitroso-di-n-propylamine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.51600	N-Nitrosodiphenylamine / Diphenylamine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.52550	Pentachlorophenol	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.52700	Phenanthrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.52750	Phenol	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.53400	Pyrene	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.53450	Pyridine	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.55400	Trichlorobenzene (1,2,4-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.55500	Trichlorophenol (2,4,5-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.55550	Trichlorophenol (2,4,6-)	Extract, GC/MS	EPA 625.1	NY
Certified	Yes	NPW11.68750	Acetone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.68850	Acrolein	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.68900	Acrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69050	Amyl alcohol (t-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69100	Benzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69200	Bromobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69250	Bromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69300	Bromodichloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69400	Bromoform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69450	Bromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69650	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69850	Butylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69900	Carbon disulfide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.69950	Carbon tetrachloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70000	Chlorobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70050	Chloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70100	Chloroethyl vinyl ether (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70150	Chloroform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70200	Chloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70250	Chlorotoluene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.70300	Chlorotoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70400	Cyclohexane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70500	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70550	Dibromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70600	Dibromoethane (1,2-) (EDB)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70650	Dibromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70750	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70800	Dichlorobenzene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70850	Dichlorobenzene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70900	Dichlorobenzene (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.70950	Dichlorodifluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71000	Dichloroethane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71050	Dichloroethane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71100	Dichloroethene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71150	Dichloroethene (cis-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71200	Dichloroethene (trans-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71250	Dichloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71300	Dichloropropane (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71350	Dichloropropane (2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71400	Dichloropropene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71450	Dichloropropene (cis-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71500	Dichloropropene (trans-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71550	Diethyl ether (Ethyl ether)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71600	Diisopropyl Ether (DIPE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71650	Dioxane (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71700	Ethanol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71900	Ethylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.71950	Ethyl-tert-butyl Ether (ETBE)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72050	Hexachlorobutadiene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72200	Hexanone (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72400	Isopropylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.72450	Isopropyltoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72550	Methyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72650	Methyl iodide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72750	Methyl tert-butyl ether	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72800	Methylcyclohexane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.72850	Methylene chloride (Dichloromethane)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73000	Naphthalene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73100	Nitropropane (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73350	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73450	Propylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73500	Sec-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73550	Styrene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73600	tert-Amylmethyl ether (TAME)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73700	Tert-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73750	Tert-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73800	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73850	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.73900	Tetrachloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74000	Toluene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74100	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74150	Trichlorobenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74200	Trichlorobenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74250	Trichloroethane (1,1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74300	Trichloroethane (1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74350	Trichloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74400	Trichlorofluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74450	Trichloropropane (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74550	Trimethylbenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74600	Trimethylbenzene (1,3,5-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74700	Vinyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74750	Vinyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.74800	Xylene (m-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74850	Xylene (o-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74900	Xylene (p-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.74950	Xylenes (total)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	NPW11.75150	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75200	Acenaphthylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75250	Acetophenone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75600	Aniline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75650	Anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75750	Atrazine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75850	Benzaldehyde	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.75950	Benzidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76000	Benzo(a)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76050	Benzo(a)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76100	Benzo(b)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76150	Benzo(ghi)perylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76250	Benzo(k)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76300	Benzoic acid	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76400	Benzyl alcohol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76550	Biphenyl (1,1'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76600	Bis (2-chloroethoxy) methane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76650	Bis (2-chloroethyl) ether	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76700	Bis(2-chloroisopropyl)ether|2,2'-oxybis(1-chloropropane)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76750	Bis (2-ethylhexyl) phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76800	Bromophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76850	Butylbenzylphthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76900	Caprolactam	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.76950	Carbazole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77150	Chloroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77300	Chloronaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.77350	Chlorophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77400	Chlorophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.77450	Chrysene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78000	Dibenzo(a,h)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78200	Dibenzofuran	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78250	Dichlorobenzene (1,2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78300	Dichlorobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78350	Dichlorobenzene (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78400	Dichlorobenzidine (3,3'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78450	Dichlorophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78500	Dichlorophenol (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78600	Diethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.78750	Dimethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79100	Dimethylphenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79150	Di-n-butyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79300	Dinitrophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79350	Dinitrophenol (2-methyl-4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79400	Dinitrotoluene (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79450	Dinitrotoluene (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79500	Di-n-octyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79600	Dioxane (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.79650	Diphenylhydrazine / Azobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80150	Fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80200	Fluorene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80350	Hexachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80400	Hexachlorobutadiene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80450	Hexachlorocyclopentadiene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80500	Hexachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80750	Indeno(1,2,3-cd)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.80850	Isophorone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81300	Methyl phenol (4-chloro-3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.81450	Methylnaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81500	Methylphenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81550	Methylphenol (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81600	Methylphenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81650	Naphthalene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81850	Nitroaniline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81900	Nitroaniline (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.81950	Nitroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82000	Nitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82100	Nitrophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82150	Nitrophenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82250	N-Nitrosodimethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82350	N-Nitroso-di-n-propylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82400	N-Nitrosodiphenylamine / Diphenylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.82700	Parathion	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83250	Pentachloronitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83300	Pentachlorophenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83400	Phenanthrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83450	Phenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83850	Pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.83900	Pyridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84350	Tetrachlorobenzene (1,2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84400	Tetrachlorophenol (2,3,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84650	Trichlorobenzene (1,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84700	Trichlorophenol (2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84750	Trichlorophenol (2,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84900	Acenaphthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.84950	Acenaphthylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85000	Anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85050	Benzo(a)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85100	Benzo(a)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: NPW11--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	NPW11.85150	Benzo(b)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85200	Benzo(ghi)perylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85250	Benzo(k)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85300	Chrysene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85350	Dibenzo(a,h)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85550	Dioxane (1,4-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85600	Fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85650	Fluorene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.85850	Indeno(1,2,3-cd)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.86050	Naphthalene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.86200	Phenanthrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	NPW11.86250	Pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY

Category: SCM02--Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM02.00450	Free liquid	Flow-Through Paint Filter, Observation	SW-846 9095B	NY
Certified	Yes	SCM02.00560	Ignitability	Pensky-Martin	SW-846 1010B	NY
Certified	Yes	SCM02.00800	pH - soil and waste	Mix with Water or Calcium Chlorides	SW-846 9045D	NY

Category: SCM03--Inorganic Parameters and Preparation

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM03.00550	Bromide	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.00900	Chloride	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.01150	Cyanide	Distillation	SW-846 9010C	NY
Certified	Yes	SCM03.01250	Cyanide	Colorimetric, Automated	SW-846 9012B	NY

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Category: SCM03--Inorganic Parameters and Preparation

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM03.01550	Cyanide - amenable to Cl2	Distillation	SW-846 9010C	NY
Certified	Yes	SCM03.01950	Fluoride	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.02700	Nitrate	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.03100	Nitrite	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.03200	Oil & grease - sludge-hem	Extraction & Gravimetric	SW-846 9071B	NY
Certified	Yes	SCM03.03650	Phenols	Colorimetric, Auto, 4AAP Distillation	SW-846 9066	NY
Certified	Yes	SCM03.03950	Specific conductance	Wheatstone Bridge	SW-846 9050A	NY
Certified	Yes	SCM03.04200	Sulfate	Ion Chromatography	SW-846 9056A	NY
Certified	Yes	SCM03.04450	Sulfides, acid sol. & insol.	Redox Titration	SW-846 9030B	NY
Certified	Yes	SCM03.04500	Sulfides, acid sol. & insol.	Titration	SW-846 9034	NY
Certified	No	SCM03.04650	Total organic carbon (TOC)	Infrared Spectrometry or FID	Other NJ Modified SM-846 9060A	NY
Certified	Yes	SCM03.04700	Total organic carbon (TOC)	Pyrolytic	Other Lloyd Kahn	NY

Category: SCM05--Metals - SCM Preparation Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM05.00050	Metals	Acid Digestion, Soil Sediment & Sludge	SW-846 3050B	NY
Certified	Yes	SCM05.00100	Metals	Chromium VI Digestion	SW-846 3060A	NY
Certified	Yes	SCM05.00350	Metals	Microwave Acid Digest: Soil Sediment & Sludge	SW-846 3051A	NY
Certified	Yes	SCM05.00550	Metals	Synthetic PPT Leachate Procedure	SW-846 1312	NY
Certified	Yes	SCM05.00600	Metals	TCLP, Toxicity Procedure, Shaker	SW-846 1311	NY

Category: SCM06--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM06.02600	Chromium (VI)	Colorimetric	SW-846 7196A	NY

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Category: SCM06--Metals

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM06.02800	Mercury - solid waste	AA, Manual Cold Vapor	SW-846 7471B	NY

Category: SCM07--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM07.00001	Aluminum	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00050	Antimony	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00100	Arsenic	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00150	Barium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00200	Beryllium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00250	Boron	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00300	Cadmium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00350	Calcium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00400	Chromium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00450	Cobalt	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00500	Copper	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00550	Iron	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00600	Lead	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00700	Magnesium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00750	Manganese	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00800	Molybdenum	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00850	Nickel	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.00950	Potassium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01000	Selenium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01050	Silver	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01100	Sodium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01150	Strontium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01200	Thallium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01300	Tin	ICP	SW-846 6010D	NY

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Category: SCM07--Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM07.01350	Titanium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01450	Vanadium	ICP	SW-846 6010D	NY
Certified	Yes	SCM07.01500	Zinc	ICP	SW-846 6010D	NY

Category: SCM08--Organics - SCM Prep. / Screening Methods

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM08.00500	Organics	Waste Dilution	SW-846 3580A	NY
Certified	Yes	SCM08.00700	Semivolatile organics	TCLP, Toxicity Procedure, Shaker	SW-846 1311	NY
Certified	Yes	SCM08.00750	Semivolatile organics	Soxhlet Extraction	SW-846 3540C	NY
Certified	Yes	SCM08.00850	Semivolatile organics	Pressurized Fluid Extraction	SW-846 3545A	NY
Certified	Yes	SCM08.00900	Semivolatile organics	Microwave Extraction	SW-846 3546	NY
Certified	Yes	SCM08.00950	Semivolatile organics	Ultrasonic Extraction	SW-846 3550C	NY
Certified	Yes	SCM08.01400	Semivolatile organics	Cleanup-Silica Gel	SW-846 3630C	NJ
Certified	Yes	SCM08.01850	Volatile organics	TCLP, Toxicity Procedure, ZHE	SW-846 1311	NY
Certified	Yes	SCM08.01950	Volatile organics	Equilibrium Headspace	SW-846 5021A	NY
Certified	Yes	SCM08.02050	Volatile organics - high conc.	Methanol Extract, Closed System P & T	SW-846 5035A	NY
Certified	Yes	SCM08.02100	Volatile organics - low conc.	Closed System Purge & Trap	SW-846 5035A	NY

Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.00150	Extractable Petroleum Hydrocarbons	Extraction, GC, FID	Other NJDEP EPH 10/08, Rev. 3	NJ
Certified	Yes	SCM09.00450	Diesel range organic	Extraction, GC, FID	SW-846 8015D	NY
Certified	Yes	SCM09.00500	Gasoline range organic	GC P&T, FID	SW-846 8015D	NY
Certified	Yes	SCM09.01300	Iso-butyl alcohol	GC, Direct Injection or P & T, FID	SW-846 8015D	NY

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Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.01950	Ethylene glycol	GC, Direct Injection, FID	SW-846 8015D	NY
Certified	Yes	SCM09.05650	Aldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05700	Alpha BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05800	Beta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05850	Chlordane (alpha) (cis-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05900	Chlordane (gamma) (trans-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.05950	Chlordane (technical)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06300	DDD (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06350	DDE (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06400	DDT (4,4'-)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06450	Delta BHC	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06500	Dieldrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06550	Endosulfan I	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06600	Endosulfan II	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06650	Endosulfan sulfate	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06700	Endrin	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06750	Endrin aldehyde	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06800	Endrin ketone	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06900	Heptachlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.06950	Heptachlor epoxide	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07100	Lindane (gamma BHC)	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07150	Methoxychlor	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07300	Mirex	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07500	Toxaphene	GC, Extraction, ECD or HECD, Capillary	SW-846 8081B	NY
Certified	Yes	SCM09.07750	Heptachlorobiphenyl (2,2',3,3',4,4',5-) (PCB 170)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07800	Heptachlorobiphenyl (2,2',3,4,4',5,5'-) (PCB 180)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07850	Heptachlorobiphenyl (2,2',3,4,4',5',6-) (PCB 183)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.07900	Heptachlorobiphenyl (2,2',3,4',5,5',6-) (PCB 187)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY

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Category: SCM09--Organic Parameters - Chromatography

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM09.07950	Hexachlorobiphenyl (2,2',3,3',4,4'-) (PCB 128)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08000	Hexachlorobiphenyl (2,2',3,4,4',5'-) (PCB 138)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08150	Hexachlorobiphenyl (2,2',4,4',5,5'-) (PCB 153)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08200	Nonachlorobiphenyl (2,2',3,3',4,4',5,5',6-) (PCB 206)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08250	Pentachlorobiphenyl (2,2',3,4,5'-) (PCB 87)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08300	Pentachlorobiphenyl (2,2',4,5,5'-) (PCB 101)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08400	Pentachlorobiphenyl (2,3',4,4',5-) (PCB 118)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08450	Tetrachlorobiphenyl (2,2',3,5'-) (PCB 44)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08500	Tetrachlorobiphenyl (2,2',5,5'-) (PCB 52)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08550	Tetrachlorobiphenyl (2,3',4,4'-) (PCB 66)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08600	Trichlorobiphenyl (2,2',5-) (PCB 18)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08700	PCB 1016	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08750	PCB 1221	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08800	PCB 1232	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08850	PCB 1242	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08900	PCB 1248	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.08950	PCB 1254	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09000	PCB 1260	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09050	PCB 1262	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09100	PCB 1268	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09105	PCB 1016 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09110	PCB 1221 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09115	PCB 1232 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09120	PCB 1242 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09125	PCB 1248 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.09130	PCB 1254 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY

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Category: SCM09--Organic Parameters - Chromatography

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Certified	Yes	SCM09.09135	PCB 1260 (Oil)	GC, Extraction, ECD or HECD, Capillary	SW-846 8082A	NY
Certified	Yes	SCM09.13850	Azinphos methyl	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14150	Diazinon	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14300	Disulfoton	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14550	Malathion	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.14950	Simazine	GC, Extract or Dir Inj, NPD or FPD,Cap	SW-846 8141B	NY
Certified	Yes	SCM09.15400	D (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.15450	Dalapon	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.15500	DB (2,4-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16000	Dicamba	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16100	Dichlorprop	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16150	Dinoseb	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16250	MCPA	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16300	MCPP	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16400	Pentachlorophenol	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16500	T (2,4,5-)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.16550	TP (2,4,5-) (Silvex)	GC, Extraction, ECD, Capillary	SW-846 8151A	NY
Certified	Yes	SCM09.17500	Formaldehyde	HPLC, Extraction, Derivatization	SW-846 8315A	NY

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.22900	Acetone	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23000	Acrolein	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23050	Acrylonitrile	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23200	Benzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23300	Bromobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23350	Bromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23400	Bromodichloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 7/06/2021 until 6/30/2022

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.23500	Bromoform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23550	Bromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23650	Butanone (2-) (Methyl ethyl ketone)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23800	Butylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23850	Carbon disulfide	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23900	Carbon tetrachloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.23950	Chlorobenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24000	Chloroethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24100	Chloroform	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24150	Chloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24200	Chlorotoluene (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24250	Chlorotoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24330	Cyclohexane	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24400	Dibromo-3-chloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24450	Dibromochloromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24500	Dibromoethane (1,2-) (EDB)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24550	Dibromomethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24650	Dichloro-2-butene (trans-1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24700	Dichlorobenzene (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24750	Dichlorobenzene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24800	Dichlorobenzene (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24850	Dichlorodifluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24900	Dichloroethane (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.24950	Dichloroethane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25000	Dichloroethene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25050	Dichloroethene (cis-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25100	Dichloroethene (trans-1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25150	Dichloropropane (1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25200	Dichloropropane (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25250	Dichloropropane (2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25300	Dichloropropene (1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.25350	Dichloropropene (cis-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25400	Dichloropropene (trans-1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25450	Diethyl ether (Ethyl ether)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25550	Dioxane (1,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25750	Ethylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25850	Hexachlorobutadiene (1,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.25950	Hexanone (2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26150	Isopropylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26200	Isopropyltoluene (4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26280	Methyl acetate	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26330	Methylcyclohexane	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26450	Methyl tert-butyl ether	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26500	Methylene chloride (Dichloromethane)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26650	Naphthalene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26730	Nitropropane (2-)	GC/MS, P & T, or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26850	Pentanone (4-methyl-2-) (MIBK)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.26950	Propylbenzene (n-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27000	Sec-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27050	Styrene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27200	Tert-butyl alcohol	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27250	Tert-butylbenzene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27300	Tetrachloroethane (1,1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27350	Tetrachloroethane (1,1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27400	Tetrachloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27450	Tetrahydrofuran	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27500	Toluene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27600	Trichloro (1,1,2-) trifluoroethane (1,2,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27650	Trichlorobenzene (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27700	Trichlorobenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27750	Trichloroethane (1,1,1-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27800	Trichloroethane (1,1,2-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY

New Jersey Department of Environment Protection
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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.27850	Trichloroethene	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27900	Trichlorofluoromethane	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.27950	Trichloropropane (1,2,3-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28000	Trimethylbenzene (1,2,4-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28050	Trimethylbenzene (1,3,5-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28150	Vinyl acetate	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28200	Vinyl chloride	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28250	Xylene (m-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28300	Xylene (o-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28350	Xylene (p-)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28400	Xylenes (total)	GC/MS, P & T or Direct Injection, Capillary	SW-846 8260D	NY
Certified	Yes	SCM10.28900	Acenaphthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.28950	Acenaphthylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29000	Acetophenone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29350	Aniline	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29450	Anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29550	Atrazine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29650	Benzaldehyde	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29750	Benzidine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29800	Benzo(a)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29850	Benzo(a)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29900	Benzo(b)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.29950	Benzo(ghi)perylene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30050	Benzo(k)fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30100	Benzoic acid	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30200	Benzyl alcohol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30350	Biphenyl (1,1'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30400	Bis (2-chloroethoxy) methane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30450	Bis (2-chloroethyl) ether	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30500	Bis(2-chloroisopropyl)ether|2,2'-oxybis(1-chloropropane)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.30550	Bis (2-ethylhexyl) phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30600	Bromophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30650	Butylbenzylphthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30700	Caprolactam	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30750	Carbazole	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.30950	Chloroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31100	Chloronaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31150	Chlorophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31200	Chlorophenyl-phenyl ether (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31250	Chrysene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.31800	Dibenzo(a,h)anthracene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32000	Dibenzofuran	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32050	Dichlorobenzene (1,2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32100	Dichlorobenzene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32150	Dichlorobenzene (1,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32200	Dichlorobenzidine (3,3'-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32250	Dichlorophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32300	Dichlorophenol (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32400	Diethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32550	Dimethyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32900	Dimethylphenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.32950	Di-n-butyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33100	Dinitrophenol (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33150	Dinitrophenol (2-methyl-4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33200	Dinitrotoluene (2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33250	Dinitrotoluene (2,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33300	Di-n-octyl phthalate	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33450	Diphenylhydrazine / Azobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.33950	Fluoranthene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34000	Fluorene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34150	Hexachlorobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

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587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.34200	Hexachlorobutadiene (1,3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34250	Hexachlorocyclopentadiene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34300	Hexachloroethane	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34550	Indeno(1,2,3-cd)pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.34650	Isophorone	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35100	Methyl phenol (4-chloro-3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35250	Methylnaphthalene (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35300	Methylphenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35350	Methylphenol (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35400	Methylphenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35450	Naphthalene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35650	Nitroaniline (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35700	Nitroaniline (3-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35750	Nitroaniline (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35800	Nitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35900	Nitrophenol (2-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.35950	Nitrophenol (4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36050	N-Nitrosodimethylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36150	N-Nitroso-di-n-propylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36200	N-Nitrosodiphenylamine / Diphenylamine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.36500	Parathion	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37050	Pentachloronitrobenzene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37100	Pentachlorophenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37200	Phenanthrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37250	Phenol	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37650	Pyrene	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.37700	Pyridine	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38150	Tetrachlorobenzene (1,2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38200	Tetrachlorophenol (2,3,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38450	Trichlorobenzene (1,2,4-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38500	Trichlorophenol (2,4,5-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY

New Jersey Department of Environment Protection
Environmental Laboratory Certification Program

Annual Certified Parameter List and Current Status

Effective as of 7/06/2021 until 6/30/2022

Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC 210002
587 E MIDDLE TPKE
MANCHESTER CT 06040

Category: SCM10--Organic Parameters - Chromatography/MS

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Certified	Yes	SCM10.38550	Trichlorophenol (2,4,6-)	GC/MS, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38700	Acenaphthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38750	Acenaphthylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38800	Anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38850	Benzo(a)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38900	Benzo(a)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.38950	Benzo(b)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39000	Benzo(ghi)perylene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39050	Benzo(k)fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39100	Chrysene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39150	Dibenzo(a,h)anthracene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39250	Dioxane (1,4-)	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39300	Fluoranthene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39350	Fluorene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39550	Indeno(1,2,3-cd)pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39700	Naphthalene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39850	Phenanthrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.39900	Pyrene	GC/MS/SIM, Extract or Dir Inj, Capillary	SW-846 8270E	NY
Certified	Yes	SCM10.41600	Ethylene glycol	GC/MS/SIM, Direct Aqueous Injection	User Defined SW-846 8260D	NY

Michele M. Potter, Manager

APPENDIX D
COMMUNITY AIR MONITORING PLAN
(CAMP)

COMMUNITY AIR MONITORING PLAN

1665 STILLWELL AVENUE
BROOKLYN, NY 11223
NYSDEC SITE NO. C224307

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION, BUREAU B
625 BROADWAY, 12th FLOOR
ALBANY, NEW YORK 12233-7016

PREPARED FOR:

REFULGENCE LLC
8738 20th AVENUE
BROOKLYN, NEW YORK 11214

PREPARED BY:

AMERICAN ENVIRONMENTAL SOLUTIONS
42 West Avenue
Patchogue, New York 11772
TEL: (631) 475-0020
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PENDYENVENG@OPTONLINE.NET

AES Project No. 0880

AUGUST 2021

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2.0 AIR MONITORING PLAN……..3
2.1 Particulate Monitoring……...3
2.2 VOC Monitoring……..……..5
3.0 RECORD KEEPING…….6

FIGURE 1 SITE LOCATION MAP

APPENDIX A NYSDOH GENERIC COMMUNITY AIR MONITORING PLAN
APPENDIX B AIR MONITORING EQUIPMENT SPECIFICATIONS

1.0 Introduction

American Environmental Solutions, Inc. (AES) has developed this Community Air Monitoring Plan (CAMP) for the site located at 1665 Stillwell Avenue, Brooklyn, New York on behalf of the site owner, Refulgence LLC (Owner). This CAMP fulfills the general requirements set forth by the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan. The NYSDOH Generic CAMP is included as Appendix A.

The CAMP requires real-time continuous monitoring for volatile organic compounds (VOCs) and particulates at the upwind and downwind perimeter of each designated work area during ground intrusive construction activities at the site. The intent of the CAMP is to provide a measure of protection for the downwind community. The protection is from potential airborne contaminant releases as a direct result of ground intrusive work activities. The action levels specified in this report may require increased monitoring or conducting corrective actions to abate or prevent emissions, and/or work shutdown if necessary.

The site is located on the eastern side of Stillwell Avenue between Kings Highway to the north and Quentin Road to the south. The .184 acre site is partially developed with a single story concrete block building which is currently vacant and was previously occupied by a drycleaner, thrift shop and a dairy. The site may have been impacted by historic dry cleaning operations on-site. The proposed redevelopment plan for the site includes demolition of the current site building and new construction of a five-story mixed use building with a cellar. The site location is shown on Figure 1.

The site was accepted into the New York State Brownfield Cleanup Program (BCP) and a Brownfield Cleanup Agreement (BCA) was executed with New York State Department of Environmental Conservation (NYSDEC) on June 14, 2021.

This CAMP will be implemented during site remediation and redevelopment that includes ground intrusive activities resulting in potential airborne contaminant and particulate releases from the site. Such activities include soil excavation for remedial activities and foundation installation. Specifically, this CAMP outlines the air quality monitoring procedures to be followed to protect the downwind community (i.e., offsite receptors including residences and businesses) from potential airborne contaminant releases that may result from construction activities on-site. AES will perform air monitoring on-site to comply with the CAMP.

According to the previous subsurface investigation performed by American Environmental Assessment & Remediation, Inc. (AEAS) of Brooklyn, New York during June 2019, subsurface material at the site contains volatile organic compounds, semi-volatile organic compounds (SVOCs) and metals in concentrations below NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives UUSCOs. One soil sampling location contained lead in a concentration exceeding NYSDEC Part 375 UUSCOs and Residential Use Soil Cleanup Objectives (RUSCOs). Contaminants such as metals, SVOCs and VOCs in soil have the potential to be transported with exposed surficial soil and fill materials during ground intrusive activities.

2.0 Air Monitoring Plan

Air will be monitored in real-time during ground intrusive activities conducted for site remediation and redevelopment. The AES air monitor (or their representative) will observe and document the wind direction at least three times a day (beginning and at 2-3 hours intervals) during air monitoring activities. A wind sock, streamers, or other visible wind direction indicator shall be established approximately 10 feet off of the ground at the perimeter of the site. These observations ensure that the air monitoring equipment is located appropriately based upon the wind direction. The locations of the monitoring equipment may be adjusted throughout the day as needed with regards to site construction activities and wind direction. All air monitoring data along with the documented monitoring conditions (e.g., weather, locations of monitoring equipment) shall be recorded by the air monitor (or their representative) and maintained by AES. Air monitoring data will be available to NYSDEC and NYSDOH for their review upon request. The following sections describe the specific CAMP monitoring procedures that will be implemented by AES for both particulates and volatile organic compounds during ground intrusive activities or when there is visible dust leaving the site.

2.1 Particulate Monitoring

Air monitoring for particulates (i.e, dust) will be performed continuously during ground intrusive activities using both air monitoring equipment and visual observations. Monitoring equipment capable of measuring particulate matter smaller than to microns (PM-10) and capable of measuring, integrating (averaging), and recording over periods of 15 minutes or less (TSI DustTrak II 8530 monitor with weather enclosure and tripod base or NYSDEC-approved equivalent), will be set up down wind of the intrusive activities at the down wind perimeter of the site, at a height approximately 4 feet to 5 feet above land surface (i.e., the breathing zone). This equipment will measure and calculate the 15-minute running average particulate concentrations for subsequent downloading and reporting.

An audible alarm on the downwind particulate monitoring device will be set at 100 micrograms per cubic meter (ug/m^3) above the background level {i.e., upwind location).

Upwind particulate concentrations will be measured at the start of each workday and periodically throughout the day thereafter to establish background conditions. The particulate monitoring equipment will be calibrated at the start of each day and checked as necessary throughout the day in response to questionable readings or suspected malfunctioning equipment.

The monitoring results will be compared to the following:

• If the downwind PM-10 particulate level is 100 ug/m) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the site, then dust suppression techniques will be employed. Work may continue with dust suppression techniques, provided that downwind PM-10 particulate levels do not exceed 150 ug/m' above the upwind level and provided that no visible dust is migrating from the site.

• If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 ug/m^3 above the upwind level, work must be stopped and activities reevaluated. Work will be allowed to resume after dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate levels to within 150 ug/m^3 of upwind background conditions and in preventing visible dust migration. There may be situations where visible dust is generated by site construction activities and dust migrates to downwind locations but is not detected by the monitoring equipment at or above the action levels. Therefore if visible dust is observed leaving the site dust suppression techniques described below shall be employed by the Contractor.

There may be situations where visible dust is generated by site construction activities and dust migrates to downwind locations but is not detected by the monitoring equipment at or above the action levels. Therefore if visible dust is observed leaving the site, dust suppression techniques described below shall be employed by the at the direction of the AES Project Manager.

The owner shall provide all necessary measures to control dust. Possible dust suppression techniques to be utilized include:

- Applying potable water to the work area
- Covering stockpiled material and excavated areas after excavation is complete for the day
- Reducing the excavation size
- Restricting vehicle speeds to 10 mph
- Applying an approved resin-in-water emulsion other materials approved by NYSDEC and New York City Department of Environmental Protection (NYCDEP)

Watering equipment shall consist of garden hoses, tanks, tank trucks or other approved devices capable of applying a uniform spread of water over the surface. A suitable device for regulating the flow and positive shutoff of the water shall be provided for positive control by the Contractor to prevent flooding and runoff from the site.

2.2 Volatile Organic Compounds Monitoring

Volatile organic compounds (VOCs) will initially be monitored at the downwind perimeter of the immediate work area or site perimeter on a continuous basis. The VOC monitoring component of the CAMP will only be implemented when working with soil or materials that are known or suspected to contain VOCs. If it is demonstrated that VOCs are not migrating off site for a particular area or activity, VOC monitoring can be changed to periodically upon approval of the NYSDEC. Upwind concentrations will be measured at the start of each monitoring event and periodically thereafter as needed to establish background conditions during the event. The monitoring work will be performed using a Photoionization Detector (PID) to monitor levels of total organic vapors. The equipment will be calibrated daily with the appropriate calibration gases recommended by the manufacturer.

The equipment will be capable of calculating and recording 15-minute running average concentrations which will be compared to the levels specified below.

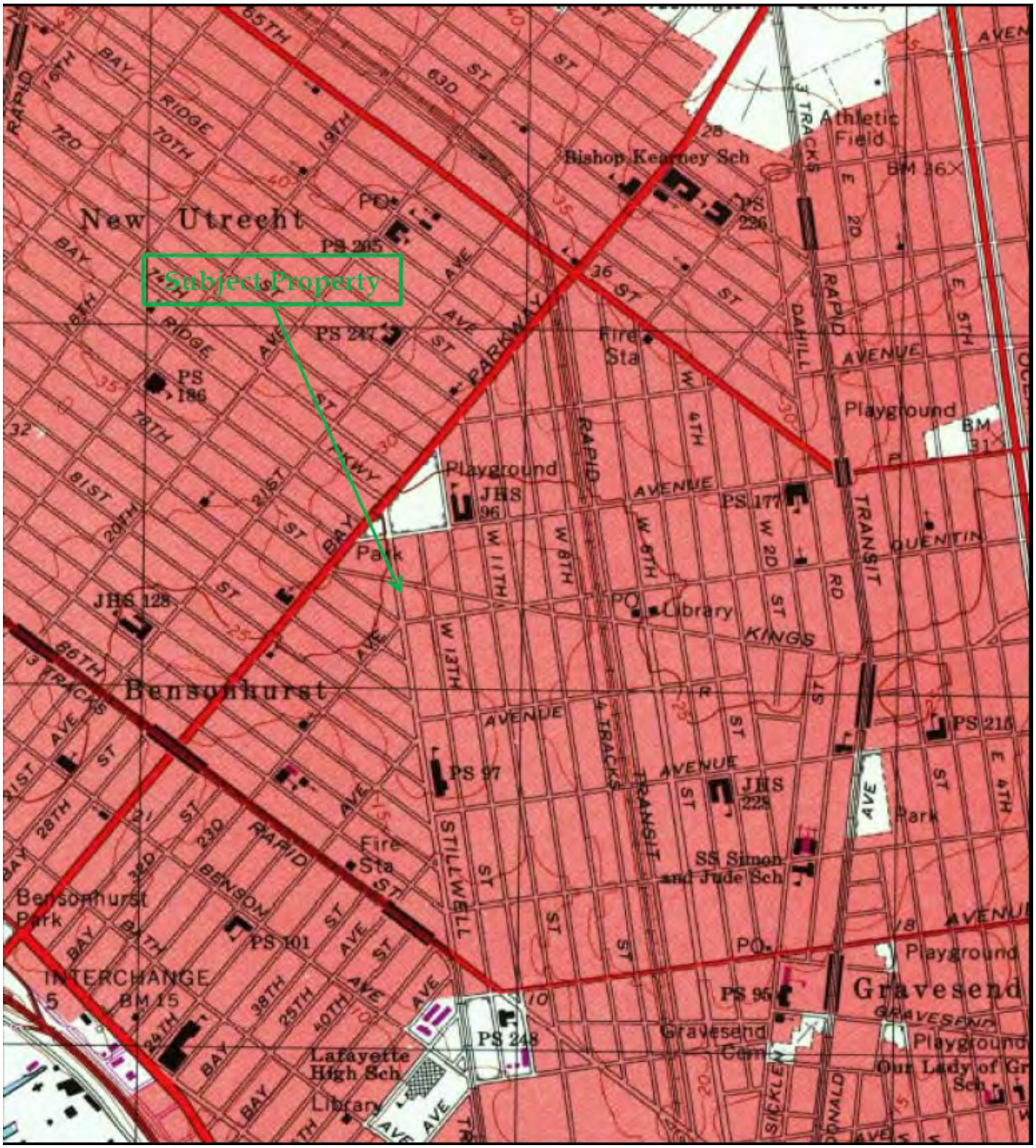
• If the ambient air concentrations of total organic vapors at the downwind perimeter of the site exceeds 5 parts per million (ppm) above background for the 15-minute average work activities must be temporarily halted in the area of concern and monitoring continued. If the measured levels readily decreases (per instantaneous readings) below these action levels over background work activities can resume with continued periodic monitoring.

• If total organic vapor readings at the downwind perimeter of the site persist at levels in excess of 5 ppm over background but are less than or equal to 25 ppm work activities in the area of concern must be halted, the source of vapors identified and corrective actions taken to abate emissions. After these steps work activities can resume provided that the total organic vapor levels at the downwind perimeter of the work area or site perimeter are below 5 ppm over background for the 15-minute average.

• If the organic vapor levels are more than 25 ppm above background at the downwind perimeter of the site perimeter, activities must be halted in the area of concern until corrective measures are identified and implemented to reduce emissions as described above.

3.0 Record Keeping

All air monitoring data will be recorded every 15 minutes on air monitoring logs which will be maintained in a binder. At the completion of each work day the data recorded by each monitoring station will be downloaded and reviewed by the AES Project Manager. Exceedances of CAMP monitoring levels will be reported to the NYSDEC project manager, Meghan Medwid (meghan.medwid@dec@dec.ny.gov; 518-402-8610) within 24 hours. Air monitoring data will be made available to the NYSDEC Project Manager or NYSDOH for review upon request.



USGS Topographic Map, 7.5 Minute Series, Coney Island, NY Quadrangle

1665 Stillwell Avenue **Brooklyn, NY 11223** **NYSDEC BCP Site No. C224307**		**Figure 1** **Site Location Map** **American Environmental Solutions, Inc.**

APPENDIX A
NYSDOH GENERIC COMMUNITY AIR MONITORING PLAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

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

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

APPENDIX B
MINI RAE 3000 PID & DUST TRAK METER
INFORMATION

Honeywell

THE POWER OF **CONNECTED**

MiniRAE® 3000 +

Portable Handheld VOC Monitor



The MiniRAE 3000 + is a comprehensive handheld VOC (Volatile Organic Compound) monitor that uses a third-generation patented PID technology to accurately measure one of the highest levels of ionizable chemicals available on the market. The MiniRAE 3000 + is a comprehensive handheld VOC (Volatile Organic Compound) monitor that uses a third-generation patented PID technology to accurately measure one of the highest levels of ionizable chemicals available on the market.

It provides full-range measurement from 0 to 15,000 ppm of VOCs. The MiniRAE 3000 + has a built-in wireless modem that allows real-time data connectivity with the command center located up to 2 miles (3 km) away through a Bluetooth connection to a RAELink 3* portable modem or optionally via Mesh Network.



Workers can quickly measure VOCs and wirelessly transmit data

- Highly accurate VOC measurements
- Reflex PID Technology™
- Low maintenance—easy access to lamp and sensor
- Low cost of ownership
- 3-year 10.6eV lamp warranty
- BLE module & dedicated APP for Enhanced Datalogging capability

FEATURES & BENEFITS

- Third-generation patented PID technology
- Reflex PID Technology™
- VOC detection range from 0 to 15,000 ppm
- 3-second response time
- Humidity compensation with built-in humidity and temperature sensors
- Six-month datalogging
- Highly connectivity capability through multiple wireless module options
- Large graphic display with integrated flashlight
- Multi-language support with 10 languages encoded
- IP- 67 waterproof design

APPLICATIONS

- Oil and Gas
- HazMat
- Industrial Safety
- Civil Defense
- Environmental and Indoor Air Quality

Download on the App Store

GET IT ON Google Play

Instrument Specifications

Size	10" L x 3.0" W x 2.5" H (25.5 cm x 7.6 cm x 6.4 cm)
Weight	26 oz (738 g)
Sensors	Photoionization sensor with standard 10.6 eV or optional 9.8 eV or 11.7 eV lamp
Battery	• Rechargeable, external field-replaceable Lithium-Ion battery pack • Alkaline battery adapter
Running time	16 hours of operation (12 hours with alkaline battery adapter)
Display Graphic	4 lines, 28 x 43 mm, with LED backlight for enhanced display readability
Keypad	1 operation and 2 programming keys, 1 flashlight on/off
Direct Readout	Instantaneous reading • VOCs as ppm by volume (mg/m3) • High values • STEL and TWA • Battery and shutdown voltage • Date, time, temperature
Alarms	95dB at 12" (30 cm) buzzer and flashing red LED to indicate exceeded preset limits • High: 3 beeps and flashes per second • Low: 2 beeps and flashes per second • STEL and TWA: 1 beep and flash per second • Alarms latching with manual override or automatic reset • Additional diagnostic alarm and display message for low battery and pump stall
EMC/RFI	Compliant with EMC directive (2004/108/EC) EMI and ESD test: 100MHz to 1GHz 30V/m, no alarm Contact: ±4kV Air: ±8kV, no alarm
IP Rating	• IP-67 unit off and without flexible probe • IP-65 unit running
Datalogging	Standard 6 months at one-minute intervals
Calibration	Two-point or three-point calibration for zero and span. Reflex PID Technology™ Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates
Sampling Pump	• Internal, integrated flow rate at 500 cc/mn • Sample from 100' (30m) horizontally or vertically
Low Flow Alarm	Auto pump shutoff at low-flow condition
Communication & Data Download	• Download data and upload instrument set-up from PC through charging cradle or using BLE module and dedicated APP • Wireless data transmission through built-in RF modem
Wireless Network	Mesh RAE Systems Dedicated Wireless Network
Wireless Range (Typical)	Up to 15ft (5m) for BLE EchoView Host: LOS > 660 ft (200 m) ProRAE Guardian & RAEMesh Reader: LOS > 660 ft (200 m) ProRAE Guardian & RAELink3 Mesh: LOS > 330 ft (100 m)
Safety Certifications	**US and Canada:** CSA, Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D **Europe:** ATEX II 2G EEx ia IIC T4
Temperature	-4° to 122° F (-20° to 50° C)
Humidity	0% to 95% relative humidity (non-condensing)

Instrument Specifications

Attachments	Durable bright yellow rubber boot
Warranty	3 years for 10.6 eV lamp, 1 year for pump, battery, sensor and instrument
Wireless Frequency	ISM license-free band. IEEE 802.15.4 Sub 1GHz
Wireless Approvals	FCC Part 15, CE R&TTE, Others[1]
Radio Module	Supports BLE or Bluetooth or RM900

[1] Contact RAE Systems for country-specific wireless approvals and certificates. Specifications are subject to change.

Sensor Specifications

Gas Monitor	Range	Resolution	Response Time T90
VOCs	0 to 999.9 ppm 1,000 to 15,000 ppm	0.1 ppm 1 ppm	< 3 s < 3 s

MONITOR ONLY INCLUDES:

- MiniRAE 3000 + Monitor, Model PGM-7320
- Wireless communication module built in, as specified
- Datalogging with ProRAE Studio II Package
- Charging/download adapter
- RAE UV lamp, as specified
- Flex-I-Probe™
- External filter
- Rubber boot
- Alkaline battery adapter
- Lamp-cleaning kit
- Tool kit
- Soft leather case

OPTIONAL CALIBRATION KIT ADDS:

- 100 ppm isobutylene calibration gas, 34L
- Calibration regulator and flow controller

OPTIONAL GUARANTEED COST-OF-OWNERSHIP PROGRAM:

- 4-year repair and replacement warranty
- Annual maintenance service

For more information
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AP: ha.ap.service@honeywell.com

Datasheet_MiniRAE 3000_+_DS-1018-_EN
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Call: **800-301-9663** CEMS: **877-427-7368**
Email: **info@pine-environmental.com**
www.pine-environmental.com

PINE

TSI DUSTTRAK II Desktop 8530 Dust/Aerosol Monitor



Key Features

- Aerosol Concentration range 0.001 to 150 mg/m3
- Automatic zeroing (with optional zero module) minimizes the effect of zero drift
- Measure aerosol concentrations corresponding to PM1, PM2.5, PM10 or Respirable size fractions
- Perform in-line gravimetric analysis for custom reference calibrations

Applications

- Industrial/occupational hygiene surveys
- Indoor air quality investigations
- Outdoor environmental monitoring
- Engineering control evaluations
- Remote monitoring / Process monitoring / Emissions monitoring
- Aerosol research studies

The new TSI 8530 DustTrak II Aerosol Monitor is a desktop battery-operated, data-logging, light-scattering laser photometer that gives you real-time aerosol mass readings. It uses a sheath air system that isolates the aerosol in the optics chamber to keep the optics clean for improved reliability and low maintenance. It is suitable for clean office settings as well as harsh industrial workplaces, construction and environmental sites, and other outdoor applications. The DustTrak II Aerosol Monitor measures aerosol contaminants such as dust, smoke, fumes, and mists.

Technical Specification

Title	Values
Gravimetric Sampling	8530/31 Removable 37 mm cartridge (user supplied)
Sensor type	90° light scattering
Aerosol Concentration Range	0.001 to 150 mg/m3
Resolution	±0.1% of reading or 0.001 mg/m3, whichever is greater
Zero Stability	±0.002 mg/m3 per 24 hours at 10 sec time constant
Flow Rate	3.0 L/min set at factory, 1.40 to 3.0 L/min, user adjustable
Flow Accuracy	±5% of factory set point, internal flow controlled
Temperature Coefficient	+0.001 mg/m3 per °C
Operational Temperature	32 to 120°F (0 to 50°C)
Operational Humidity	0 to 95% RH, non-condensing
Data Logging	5 MB of on-board memory (>60,000 data points) 45 days at 1 minute logging interval
Log internal	User adjustable, 1 second to 1 hour
Analog out	User selectable output, 0 to 5 V or 4 to 20 mA User selectable scaling range



Title	Values
Power	Switching AC power adapter with universal line cord included, 115-240 VAC
Communications	USB (host and device) and Ethernet. Stored data accessible using flash memory drive
Alarm out	Relay or audible buzzer Relay Non-latching MOSFET switch User selectable set point -5% deadband Connector 4-pin, Mini-DIN connectors

Title	(mm)	(inch)	(kg)	(lb)
Desktop Unit	13.5 x 21.6 x 22.4 cm	5.3 x 8.5 x 8.8 in.	1.6 kg, 2.0 kg -1 battery	3.5 lb, 4.5 lb -1 battery

Call: **800-301-9663** CEMS: **877-427-7368**
www.pine-environmental.com

PINE

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APPENDIX E
CITIZEN PARTICIPATION PLAN

NEW YORK STATE | Department of Environmental Conservation

Brownfield Cleanup Program

Citizen Participation Plan
for
Stillwell Avenue Project

November 2021

C224307
1665 Stillwell Avenue
Brooklyn, NY 11223

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Note: The information presented in this Citizen Participation Plan was current as of the date of its approval by the New York State Department of Environmental Conservation (NYSDEC). Portions of this Citizen Participation Plan may be revised during the Site's investigation and cleanup process.

Applicant: **Refulgence LLC (" Applicant")**
Site Name: **1665 Stillwell Avenue ("Site")**
Site Address: **1665 - 1673 Stillwell Avenue**
Site County: **Kings County**
Site Number: **C224307**

1. What is New York's Brownfield Cleanup Program?

New York' s Brownfield Cleanup Program (BCP) works with private developers to encourage the voluntary cleanup of contaminated properties known as "brownfields" so that they can be reused and developed. These uses include recreation, housing, and business.

A *brownfield* is any real property that is difficult to reuse or redevelop because of the presence or potential presence of contamination. A brownfield typically is a former industrial or commercial property where operations may have resulted in environmental contamination. A brownfield can pose environmental, legal, and financial burdens on a community. If a brownfield is not addressed, it can reduce property values in the area and affect economic development of nearby properties.

The BCP is administered by the New York State Department of Environmental Conservation (NYSDEC) which oversees Applicants who conduct brownfield site investigation and cleanup activities. An Applicant is a person who has requested to participate in the BCP and has been accepted by NYSDEC. The BCP contains investigation and cleanup requirements, ensuring that cleanups protect public health and the environment. When NYSDEC certifies that these requirements have been met, the property can be reused or redeveloped for the intended use.

For more information about the BCP, go online at: http://www.dec.ny.gov/chemical/8450.html .

2. Citizen Participation Activities

Why NYSDEC Involves the Public and Why It Is Important

NYSDEC involves the public to improve the process of investigating and cleaning up contaminated sites, and to enable citizens to participate more fully in decisions that affect their health, environment, and social well-being. NYSDEC provides opportunities for citizen involvement and encourages early two-way communication with citizens before decision-makers form or adopt final positions.

Involving citizens affected and interested in site investigation and cleanup programs is important for many reasons. These include:

- Promoting the development of timely, effective site investigation and cleanup programs that protect public health and the environment;

- Improving public access to, and understanding of, issues and information related to a particular site and that site's investigation and cleanup process;
- Providing citizens with early and continuing opportunities to participate in NYSDEC's site investigation and cleanup process;
- Ensuring that NYSDEC makes site investigation and cleanup decisions that benefit from input that reflects the interests and perspectives found within the affected community; and
- Encouraging dialogue to promote the exchange of information among the affected/interested public, State agencies, and other interested parties that strengthens trust among the parties, increases understanding of site and community issues and concerns, and improves decision-making.

This Citizen Participation (CP) Plan provides information about how NYSDEC will inform and involve the public during the investigation and cleanup of the site identified above. The public information and involvement program will be carried out with assistance, as appropriate, from the Applicant.

Project Contacts

Appendix A identifies NYSDEC project contact(s) to whom the public should address questions or request information about the site's investigation and cleanup program. The public's suggestions about this CP Plan and the CP program for the site are always welcome. Interested people are encouraged to share their ideas and suggestions with the project contacts at any time.

Locations of Reports and Information

The locations of the reports and information related to the site's investigation and cleanup program also are identified in Appendix A. These locations provide convenient access to important project documents for public review and comment. Some documents may be placed on the NYSDEC website. If this occurs, NYSDEC will inform the public in fact sheets distributed about the site and by other means, as appropriate.

Site Contact List

Appendix B contains the site contact list. This list has been developed to keep the community informed about, and involved in, the site's investigation and cleanup process. The site contact list will be used periodically to distribute fact sheets that provide updates about the status of the project. These will include notifications of upcoming activities at the site (such as fieldwork), as well as availability of project documents and announcements about public comment periods.

The site contact list includes, at a minimum:

- Chief executive officer and planning board chairperson of each county, city, town, and village in which the site is located;
- Any residents, owners, and occupants of the site and properties adjacent to the site;
- The public water supplier which services the area in which the site is located;
- Any person who has requested to be placed on the site contact list;
- The administrator of any school or day care facility located on or near the site for purposes of posting and/or dissemination of information at the facility; and
- Location(s) of reports and information.

The site contact list will be reviewed periodically and updated as appropriate. Individuals and organizations will be added to the site contact list upon request. Such requests should be submitted to the NYSDEC project contact(s) identified in Appendix A. Other additions to the site contact list may be made at the discretion of the NYSDEC project manager, in consultation with other NYSDEC staff as appropriate.

Note: The first site fact sheet (usually related to the draft Remedial Investigation Work Plan) is distributed both by paper mailing through the postal service and through DEC Delivers, its email listserv service. The fact sheet includes instructions for signing up with the appropriate county listserv to receive future notifications about the site.
See http:// www.dec.ny.gov/chemica l/61092.html .

Subsequent fact sheets about the site will be distributed exclusively through the listserv, except for households without internet access that have indicated the need to continue to receive site information in paper form. Please advise the NYSDEC site project manager identified in Appendix A if that is the case. Paper mailings may continue during the investigation and cleanup process for some sites, based on public interest and need.

CP Activities

The table at the end of this section identifies the CP activities, at a minimum, that have been and will be conducted during the site' s investigation and cleanup program. The flowchart in Appendix D shows how these CP activities integrate with the site investigation and cleanup process. The public is informed about these CP activities through fact sheets and notices distributed at significant points during the program. Elements of the investigation and cleanup process that match up with the CP activities are explained briefly in Section 5.

- **Notices and fact sheets** help the interested and affected public to understand contamination issues related to a site, and the nature and progress of efforts to investigate and clean up a site.

- **Public forums, comment periods and contact with project managers** provide opportunities for the public to contribute information, opinions and perspectives that have potential to influence decisions about a site's investigation and cleanup.

The public is encouraged to contact project staff at any time during the site's investigation and cleanup process with questions, comments, or requests for information.

This CP Plan may be revised due to changes in major issues of public concern identified in Section 3 or in the nature and scope of investigation and cleanup activities. Modifications may include additions to the site contact list and changes in planned citizen participation activities.

Technical Assistance Grant

NYSDEC must determine if the site poses a significant threat to public health or the environment. This determination generally is made using information developed during the investigation of the site, as described in Section 5.

If the site is determined to be a significant threat, a qualifying community group may apply for a Technical Assistance Grant (TAG). The purpose of a TAG is to provide funds to the qualifying group to obtain independent technical assistance. This assistance helps the TAG recipient to interpret and understand existing environmental information about the nature and extent of contamination related to the site and the development/implementation of a remedy.

An eligible community group must certify that its membership represents the interests of the community affected by the site, and that its members' health, economic well-being, or enjoyment of the environment may be affected by a release or threatened release of contamination at the site.

As of the date the declaration (page 2) was signed by the NYSDEC project manager, it has been determined that the site does not pose a significant threat.

To verify the significant threat status of the site, the interested public may contact the NYSDEC project manager identified in Appendix A.

For more information about TAGs, go online at http://www.dec.ny.gov/regulations/2590.html

Note: The table identifying the citizen participation activities related to the site's investigation and cleanup program follows on the next page:

Citizen Participation Activities	Timing of CP Activity(ies)
Application Process:	
• Prepare site contact list • Establish document repository(ies)	At time of preparation of application to participate in the BCP.
• Publish notice in Environmental Notice Bulletin (ENB) announcing receipt of application and 30-day public comment period • Publish above ENB content in local newspaper • Mail above ENB content to site contact list • Conduct 30-day public comment period	When NYSDEC determines that BCP application is complete. The 30-day public comment period begins on date of publication of notice in ENB. End date of public comment period is as stated in ENB notice. Therefore, ENB notice, newspaper notice, and notice to the site contact list should be provided to the public at the same time.
After Execution of Brownfield Site Cleanup Agreement (BCA):	
• Prepare Citizen Participation (CP) Plan	Before start of Remedial Investigation **Note:** Applicant must submit CP Plan to NYSDEC for review and approval within 20 days of the effective date of the BCA.
Before NYSDEC Approves Remedial Investigation (RI) Work Plan:	
• Distribute fact sheet to site contact list about proposed RI activities and announcing 30-day public comment period about draft RI Work Plan • Conduct 30-day public comment period	Before NYSDEC approves RI Work Plan. If RI Work Plan is submitted with application, public comment periods will be combined and public notice will include fact sheet. Thirty-day public comment period begins/ends as per dates identified in fact sheet.
After Applicant Completes Remedial Investigation:	
• Distribute fact sheet to site contact list that describes RI results	Before NYSDEC approves RI Report
Before NYSDEC Approves Remedial Work Plan (RWP):	
• Distribute fact sheet to site contact list about draft RWP and announcing 45-day public comment period • Public meeting by NYSDEC about proposed RWP (if requested by affected community or at discretion of NYSDEC project manager) • Conduct 45-day public comment period	Before NYSDEC approves RWP. Forty-five day public comment period begins/ends as per dates identified in fact sheet. Public meeting would be held within the 45-day public comment period.
Before Applicant Starts Cleanup Action:	
• Distribute fact sheet to site contact list that describes upcoming cleanup action	Before the start of cleanup action.
After Applicant Completes Cleanup Action:	
• Distribute fact sheet to site contact list that announces that cleanup action has been completed and that NYSDEC is reviewing the Final Engineering Report • Distribute fact sheet to site contact list announcing NYSDEC approval of Final Engineering Report and issuance of Certificate of Completion (COC)	At the time the cleanup action has been completed. **Note:** The two fact sheets are combined when possible if there is not a delay in issuing the COC.

3. Major Issues of Public Concern

This section of the CP Plan identifies major issues of public concern that relate to the site. Additional major issues of public concern may be identified during the course of the site's investigation and cleanup process.

The site is located adjacent to an Environmental Justice Area. Environmental justice is defined as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Environmental justice efforts focus on improving the environment in communities, specifically minority and low-income communities, and addressing disproportionate adverse environmental impacts that may exist in those communities.

The site is located in an area with a sizable Asian-American Community nearby. Therefore, all future fact sheets will be translated into Chinese.

For additional information, visit:
https://popfactfinder.planning.nyc.gov/profile/2557/demographic

In addition, other concerns include noise, odor, and truck-related traffic issues.

Contaminants of concern identified at the Site include the chlorinated Volatile Organic Compounds (VOCs) Tetrachloroethene (PCE) (ranging from 231µg/m3 to 3,730 µg/m3) and Trichloroethene (TCE) (ranging from l.93 µg/m3 to 73.6 µg/m3), identified in the soil vapor samples collected throughout the Site. PCE and TCE were not identified in the soil samples obtained from the Site. Metals were identified in the shallow soil and is expected to be managed via excavation to redevelop the Site. VOCs and SVOCs were identified in the groundwater up-gradient at the Site. The area of concern was identified in the northeastern portion of the Site.

During excavation or ground intrusive activities the community will be protected from contamination migration as per the Community Air Monitoring Plan (CAMP) prepared for the Site, using air monitoring protocols and management of derived waste as detailed in the Remedial Investigation Work Plan (RIWP) and available in the document repositories.

The redevelopment of the Site will consist of the construction of a five story mixed use building with a cellar. The building foundation will be at the depth of 10 feet, 4 inches. The footprint of the building upon completion will be approximately 4,030 square feet. The cellar will contain the electric room, refuse room, bicycle parking, elevator, gas, and sprinkler room, common areas.

The building will contain sixteen units of residential housing on floors two through five and retail/commercial usage on the first floor. Upon completion, the building will be approximately 15,904.30 square feet. The eastern portion of the Subject Property will be a rear yard containing eight parking spaces. A driveway will be constructed on the southern part of the Site, providing access to the rear yard.

The proposed end-use of the site will be mixed use with commercial space on the first floor and residential apartments on floors 2,3, 4 and 5.

4. Site Information
Site Description

The Site is located at 1665 Stillwell Avenue in the Gravesend section of Brooklyn, NY. The Subject Property consists of a rectangular-shaped lot containing a one story commercial building, identified as Block 6618; Lot 48 on the NYC Tax map. The Site is located on the eastern side of Stillwell Avenue between Kings Highway to the north and Quentin Road to the south. The Subject Property is enclosed by a one story building (Brooklyn Public Library) and a two story mixed-use building to the east, by a one story commercial building (garage) to the north, by a 2.5 story residential building to the south, and Stillwell Avenue to the west. The elevation of the Subject Property is approximately 20 feet above sea level (USGS 7 1/2-Minute Coney Island, Brooklyn,

The total area of the Subject Property is approximately 8,000 square feet. The footprint of the existing building is approximately 2,400 square feet in area. The property is zoned as R6B; Residential District, with the Commercial overlay zoning C2-3 that allows for commercial usage. The occupancy code with the New York City Department of Finance for the Subject Property is listed as Kl; Store Building. The Little "E" Restriction for the Subject Property is listed as "***Hazmat"***

Appendix C contains a map identifying the location of the site.

History of Site Use, Investigation, and Cleanup

The Site currently contains a vacant one story building. Historical information indicated that past usage of the Site included dairy, thrift shop and dry-cleaners. Information obtained from Fire Insurance maps, indicated that the Site was developed prior to 1969 with a one story building, and a parking area in the western portion of the lot.

Information obtained from City Directory for the Site listed previous occupant as:

- Grandview Dairy from around year 1970 and 1973;
- Stillwell Dairy in year 1976;
- Wonder Hostess Thrift Shop around year 1985 and 1997; and
- Then converted to a dry-cleaner in 1999 (NYCDOB job number 300846155) and occupied by Ideal Cleaners from around 2000 through 2014.

Information obtained from the New York City Department of Buildings (NYCDOB) records for the Subject Property indicated usage of the Site was "ice cream dispensing stand" at 1671-1673 Stillwell Avenue in 1955 (Certificate of Occupancy# 142477, dated 01/19/1955), and "food store, with one loading/unloading berth and twelve accessory auto parking in open space" at 1665-1673 Stillwell Avenue, lots 48 and 50 (Certificate of Occupancy# 195912, dated 11/09/1966).

The Subject Property was investigated in accordance with the scope of work presented in Phase II Work Plan dated May 24th, 2019. Field activities consisted of a Ground Penetrating Radar (GPR) survey and the installation and sampling of seven (7) soil borings, t h r e e (3) temporary monitoring wells and six (6) soil vapor probes. The investigation contaminants in soil vapor throughout the Site, hotspot areas contaminated with low-concentration of metals in the shallow soil, and VOCs and SVOCs in the groundwater up-gradient at the Site.

5. Investigation and Cleanup Process

Application

The Applicant has applied for and been accepted into New York's Brownfield Cleanup Program as a Participant. This means that the Applicant was the owner of the site at the time of the disposal or discharge of contaminants or was otherwise liable for the disposal or discharge of the contaminants. The Participant must fully characterize the nature and extent of contamination onsite, as well as the nature and extent of contamination that has migrated from the site. The Participant also must conduct a "qualitative exposure assessment" a process that characterizes the actual or potential exposures of people, fish, and wildlife the actual or potential exposures of people, fish, and wildlife to contaminants on the site and to contamination that has migrated from the site.

The Applicant in its Application proposes that the site will be used for restricted purposes.

To achieve this goal, the Applicant will conduct investigation activities at the site with oversight provided by NYSDEC. The Brownfield Cleanup Agreement executed by NYSDEC and the Applicant sets forth responsibilities of each party in conducting these activities at the site.

Investigation

The Applicant has completed a partial site investigation before it entered into the BCP. For the partial investigation, NYSDEC will determine if the data are useable.

The Applicant will conduct an investigation of the site officially called a "remedial investigation" (RI). This investigation will be performed with NYSDEC oversight. The Applicant must develop a Remedial Investigation Work Plan, which is subject to public comment.

The site investigation has several goals:

1) Define the nature and extent of contamination in soil, surface water, groundwater and any other parts of the environment that may be affected;
2) Identify the source(s) of the contamination;
3) Assess the impact of the contamination on public health and the environment; and
4) Provide information to support the development of a proposed remedy to address the contamination or the determination that cleanup is not necessary.

The Applicant submits a Remedial Investigation Work Plan (RIWP) to NYSDEC for review and approval. NYSDEC makes the RIR available to the public review during a 30-day public comment period.

When the investigation is complete, the Applicant will prepare and submit a report that summarizes the results. This report also will recommend whether cleanup action is needed to address site-related contamination. The investigation report is subject to review and approval by NYSDEC.

NYSDEC will use the information in the investigation report to determine if the site poses a significant threat to public health or the environment. If the site is a "significant threat," it must be cleaned up using a remedy selected by NYSDEC from an analysis of alternatives prepared by the Applicant and approved by NYSDEC. If the site does not pose a significant threat, the Applicant may select the remedy from the approved analysis of alternatives.

Interim Remedial Measures

An Interim Remedial Measure (IRM) is an action that can be undertaken at a site when a source of contamination or exposure pathway can be effectively addressed before the site investigation and analysis of alternatives are completed. If an IRM is likely to represent all or a significant part of the final remedy, NYSDEC will require a 30-day public comment period.

Remedy Selection

When the investigation of the site has been determined to be complete, the project likely would proceed in one of two directions:

1. The Applicant may recommend in its investigation report that no action is necessary at the site. In this case, NYSDEC would make the investigation report available for public comment for 45 days. NYSDEC then would complete its review, make any necessary revisions, and, if appropriate, approve the investigation report. NYSDEC would then issue a "Certificate of Completion" (described below) to the Applicant.

or

2. The Applicant may recommend in its investigation report that action needs to be taken to address site contamination. After NYSDEC approves the investigation report, the Applicant may then develop a cleanup plan, officially called a "Remedial Work Plan". The Remedial Work Plan describes the Applicant's proposed remedy for addressing contamination related to the site.

When the Applicant submits a draft Remedial Work Plan for approval, NYSDEC would announce the availability of the draft plan for public review during a 45-day public comment period.

Cleanup Action

NYSDEC will consider public comments, and revise the draft cleanup plan if necessary, before approving the proposed remedy. The New York State Department of Health (NYSDOH) must concur with the proposed remedy. After approval, the proposed remedy becomes the selected remedy. The selected remedy is formalized in the site Decision Document.

The Applicant may then design and perform the cleanup action to address the site contamination. NYSDEC and NYSDOH oversee the activities. When the Applicant completes cleanup activities, it will prepare a Final Engineering Report (FER) that certifies that cleanup requirements have been achieved or will be achieved within a specific time frame. NYSDEC will review the report to be certain that the cleanup is protective of public health and the environment for the intended use of the site.

Certificate of Completion

When NYSDEC is satisfied that cleanup requirements have been achieved or will be achieved for the site, it will approve the FER. NYSDEC then will issue a Certificate of Completion (COC) to the Applicant. The COC states that cleanup goals have been achieved and relieves the Applicant from future liability for site-related contamination, subject to certain conditions. The Applicant would be eligible to redevelop the site after it receives a COC.

Site Management

The purpose of site management is to ensure the safe reuse of the property if contamination will remain in place. Site management is the last phase of the site cleanup program. This phase begins when the COC is issued. Site management incorporates any institutional and engineering controls required to ensure that the remedy implemented for the site remains protective of public health and the environment. All significant activities are detailed in a Site Management Plan.

An *institutional control* is a non-physical restriction on use of the site, such as a deed restriction that would prevent or restrict certain uses of the property. An institutional control may be used when the cleanup action leaves some contamination that makes the site suitable for some, but not all uses.

An *engineering control* is a physical barrier or method to manage contamination. Examples include caps, covers, barriers, fences, and treatment of water supplies.

Site management also may include the operation and maintenance of a component of the remedy, such as a system that pumps and treats groundwater. Site management continues until NYSDEC determines that it is no longer needed.

Appendix A-
Project Contacts and Locations of Reports and Information

Project Contacts

For information about the site's investigation and cleanup program, the public may contact any of the following project staff:

New York State Department of Environmental Conservation (NYSDEC):

Meghan Medwid
Project Manager
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7016
Telephone: 518-402-9767
Email: Meghan.medwid@dec.ny.gov

Jane H. O' Connell, P.G
NYSDEC Region 2
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 11101
Telephone: 718-482-4599
Email: jane.oconnell@dec.ny.gov

New York State Department of Health (NYSDOH):

Anthony Perretta
Public Health Specialist
NYSDOH
Bureau of Environmental Exposure
Corning Tower Room 1787
Albany, NY 12237
Telephone: (518) 402-1365
Email:Anthony.perretta@health.ny.gov

Locations of Reports and Information

The facilities identified below are being used to provide the public with convenient access to important project documents:

Brooklyn Public Library- Highlawn Branch
1664 West 13th Street, at Kings Highway
Brooklyn, NY 11223
Attn: Managing Librarian
Phone: 718-234-7208
Hours: closed for Covid-19

Brooklyn Community Board 11
2214 Bath Avenue
Brooklyn, NY 11214
Attn: Mamee Elias-Pavia, District Manager
Phone: 718-266-8800
Email: Kll @cb.nyc.gov
Hours: by appointment due to Covid-19

Appendix B - Site Contact List

Local Government Contacts

Hon. William de Blasio Mayor of New York City City Hall New York, NY 10007	Hon. Eric Adams Brooklyn Borough President 209 Joralemon Street Brooklyn, NY 11201
William Guarinello Chairman, Brooklyn Community Board 11 2214 Bath Avenue Brooklyn, New York 11214	Antonia Trioa – Environmental Committee Brooklyn Community Board 11 2214 Bath Avenue Brooklyn, New York 11214
Hon. Kalman Yeger NYC Council Member-44th District 4424 16th Avenue Brooklyn, NY 11204	Anita Laremont NYC Depart. of City Planning 120 Broadway, 31st Floor New York, NY 10271
Keith Bray NYC Department of Transportation Brooklyn Borough Commissioner 55 Water Street, 9th Floor New York, NY 10041	Nancy T. Sunshine, County Clerk Kings County Clerk's Office 360 Adams Street, Room 189 Brooklyn, NY 11201
Hon. JumaaneWilliams Public Advocate 1 Centre Street, 15th Floor New York, NY 10007	Hon. Scott M. Stringer Office of the Comptroller 1 Centre Street New York, NY 10007
Hon. William Colton - District 47 NYS Assembly Member 155 Kings Highway Brooklyn, NY 11223	Hon. Charles Schumer U.S. Senator 780 Third Avenue, Suite 2301 New York, NY 10017
Hon. Simcha Felder NYS Senator 1412 Avenue J, Suite 2E Brooklyn, NY 11230	Hon. Kristen Gillibrand U.S. Senator 780 Third Avenue, Suite 2601 New York, NY 10017
Congressman - District 10 Hon. Jerrold Nadler 6605 Fort Hamilton Parkway Brooklyn, NY 11219	Julie Stein Office of Environmental Planning & Assessment NYC Dept. of Environmental Protection 96-05 Horace Harding Expressway Flushing NY 11373
Vincent Sapienza Commissioner, NYC Dept. of Environmental Protection 59-17 Junction Boulevard Flushing, NY 11373	Mark McIntyre NYC Depart. of Environmental Remediation 100 Gold Street New York, NY 10038

Adjacent Property Owner Contacts:
Contact information for the identified owners, as listed in the New York City ACRIS Database, are as follows:

Direction	Adjacent Properties	Owner
North	1663 Stillwell Avenue/ 126-136 Kings Hwy 1 story commercial building (garage).	Goodview LLC Greenview Queens Realty LLC
South	1677 Stillwell Avenue 2.5 story residential building.	Peter Konstas Maria Konstas
East	1672-1674 West 13th Street 2 story mixed-use building.	Anchor Equity Holding LLC
	1664-1670 West 13th Street 1 story public building (Brooklyn Public library-Highlawn branch).	Brooklyn Public Library
West	2271 78th Street 2 story residential building.	Gao Ming Yang Yan Fen Yang Zheng Jian
	2273-2279 73th Street 2 story residential building.	Simon Attias Sheryl Attias

South at end of Block 6618
1683 Stillwell Avenue / 1 Quentin Road
Owners: Demetrios Konstas, Smaro Konstas, Despinad Konstas

Southeast end of block
13-27 Quentin Road/ 1676-1684 West 13th Street
Anchor Equity Holding LLC

Local News Media

Brooklyn Daily Eagle 16 Court Street, 30th Floor Brooklyn, New York 11241	World Journal (Chinese) 141-07 20th Avenue Whitestone, NY 11357
Sing Tao Daily 5510 8th Avenue, Room 202 Brooklyn, NY 11220	Courier-Life Publications 1 Metrotech Center #10T Brooklyn, NY 11201
New York Daily News 4 New York Plaza New York, NY 10004	New York 1 News 75 Ninth Avenue New York, NY 10011
The Brooklyn Papers 1 Metrotech Center, 3rd Floor Brooklyn, NY 11201	New York Post 1211 Avenue of the Americas New York, NY 10036

Public Water Supplier:
New York City Department of Environmental Protection
Bureau of Water Supply
59-17 Junction Boulevard, llth Floor
Flushing, New York 11373

Schools and Daycare Facilities:
The following Schools and Daycare facilities were identified within a one-half mile radius of the project site.

Gold Material Montessori School
105 Kings Hwy, Brooklyn, NY 11214
(718) 253-2552
Maksim Kondrukevich

Intermediate School 96
99 Avenue P, Brooklyn, NY 11204
718-236-1344
Erin Lynch, Principal
PS 97 -The Highlawn
1855 Stillwell Avenue, Brooklyn, NY 11223
718-627-7550
Irina Cabello, Principal

Hebrew Language Academy Charter School 2
1870 Stillwell Avenue, Brooklyn NY 11223
718-682-5610
Ashley Furan, Head of School

Brooklyn School of Inquiry
50 Avenue P, 4th Floor, Brooklyn, NY 11204
718-621-573
Debra Nier, Administrative Secretary

Success Academy
99 Avenue P, Floor 4, Brooklyn, NY 11204
347-514-7082
Kerri Lynch, Principal

PS 128 Bensonhurst
2075 4th Street, Brooklyn, NY 11214
718-373-5900
Jessica Drzewucki, Principal/Administrator

Sinai Academy Junior High and High School
2025 79th Street, Brooklyn, NY 11214
718-256-7400

Rabbi Aryeh Katzin,
Principal St. Peter Catholic
Academy
8401 23rd Avenue, Brooklyn, NY 11214
718-372-0025
Danielle Alfeo, Principal

Atidaynu - Our Future School, LLC
7914 Bay Parkway,
Brooklyn, NY 11214
718-233-9098
Simi Bazov, Principal

Stillwell Avenue Prep & Nursery
1990 Stillwell Avenue,
Brooklyn, NY 11223
718-265-2220
Candy Juba, Executive Director

Brooklyn Studio Secondary School
8310 21st Avenue,
Brooklyn, NY 11214
718-266-5032
Andrea Cilliotta, Principal

Magen David Yeshivah Celia Esses High
School 7801 Bay Parkway,
Brooklyn, NY 11214
718-331-4002
Rabbi Saul Zucker, Principal

Edith and Karl Marks JCH of Bensonhurst
7802 Bay Parkway
Brooklyn, NY 11214

Community, Civic, Religious and other Environmental Organizations

Local Community Board

Brooklyn Community Board 11
2214 Bath Avenue
Brooklyn, NY 11214
Attn: Marnee Elias-Pavia, District Manager
Phone: 718-266-8800
Email: Kll@cb.nyc.gov
Hours: by appointment due to Covid-19

Antonia Yuille - Director
Consolidated Edison Corporate Affairs
30 Flatbush Avenue
Brooklyn, NY 11217

Louis Tromboli - President
62nd Police Precinct Council
1925 Bath Avenue
Brooklyn, NY 11214

Engine 253
FDNY
2429 86th Street
Brooklyn, NY 11214

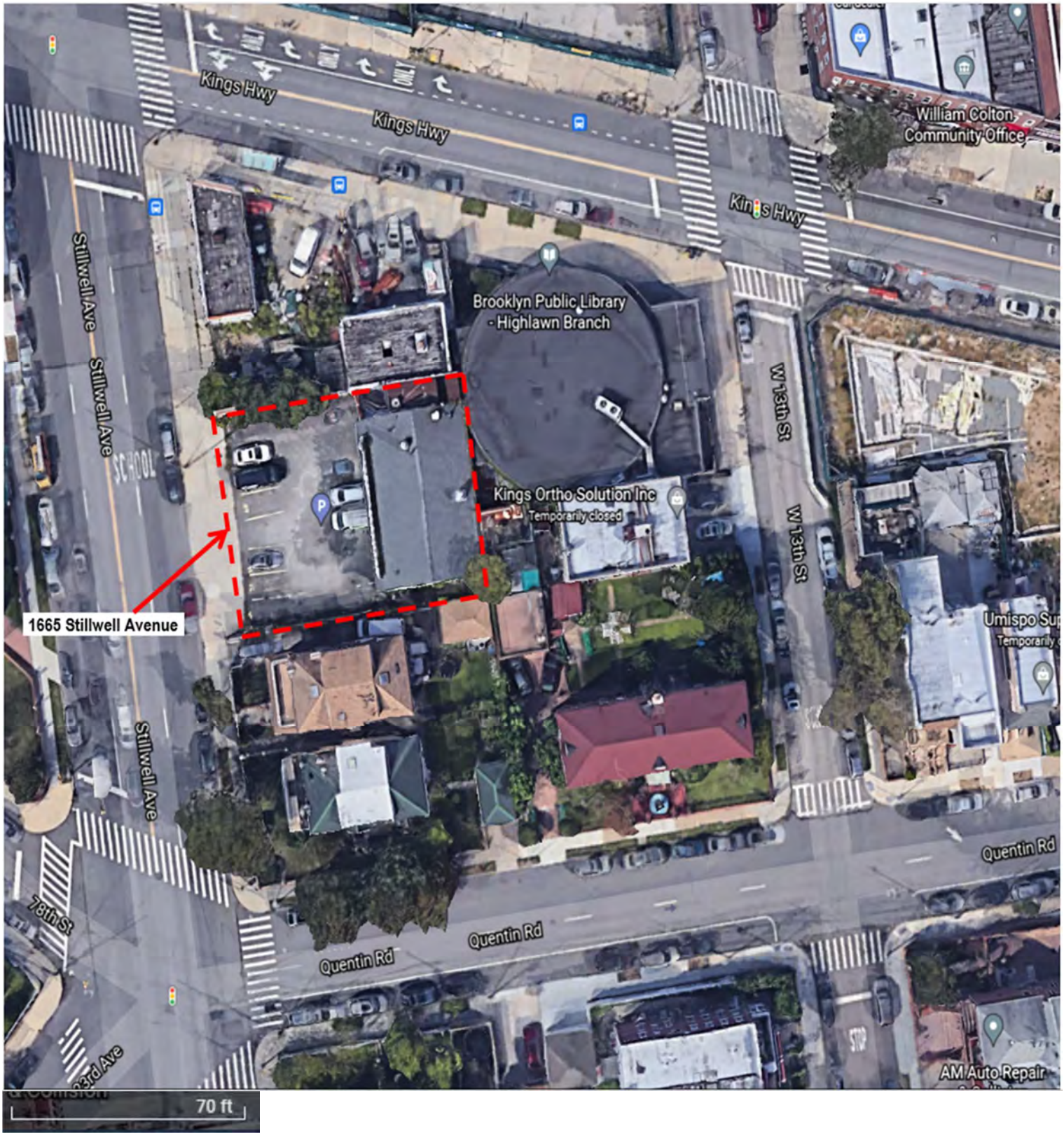
Asian Chinese United Society
1884 86th Street
Brooklyn, New York 11214

Brooklyn Chinese American Association
6701 20th Avenue
Brooklyn, NY 11204

Federation of Italian American Organizations
8711 18th Avenue
Brooklyn, NY 11204
National Federation – Italian American Societies
7704 17th Ave
Brooklyn, New York 11214

United Chinese Association
1787 Stillwell Ave
Brooklyn, NY 11223

Appendix C - Site Location Map



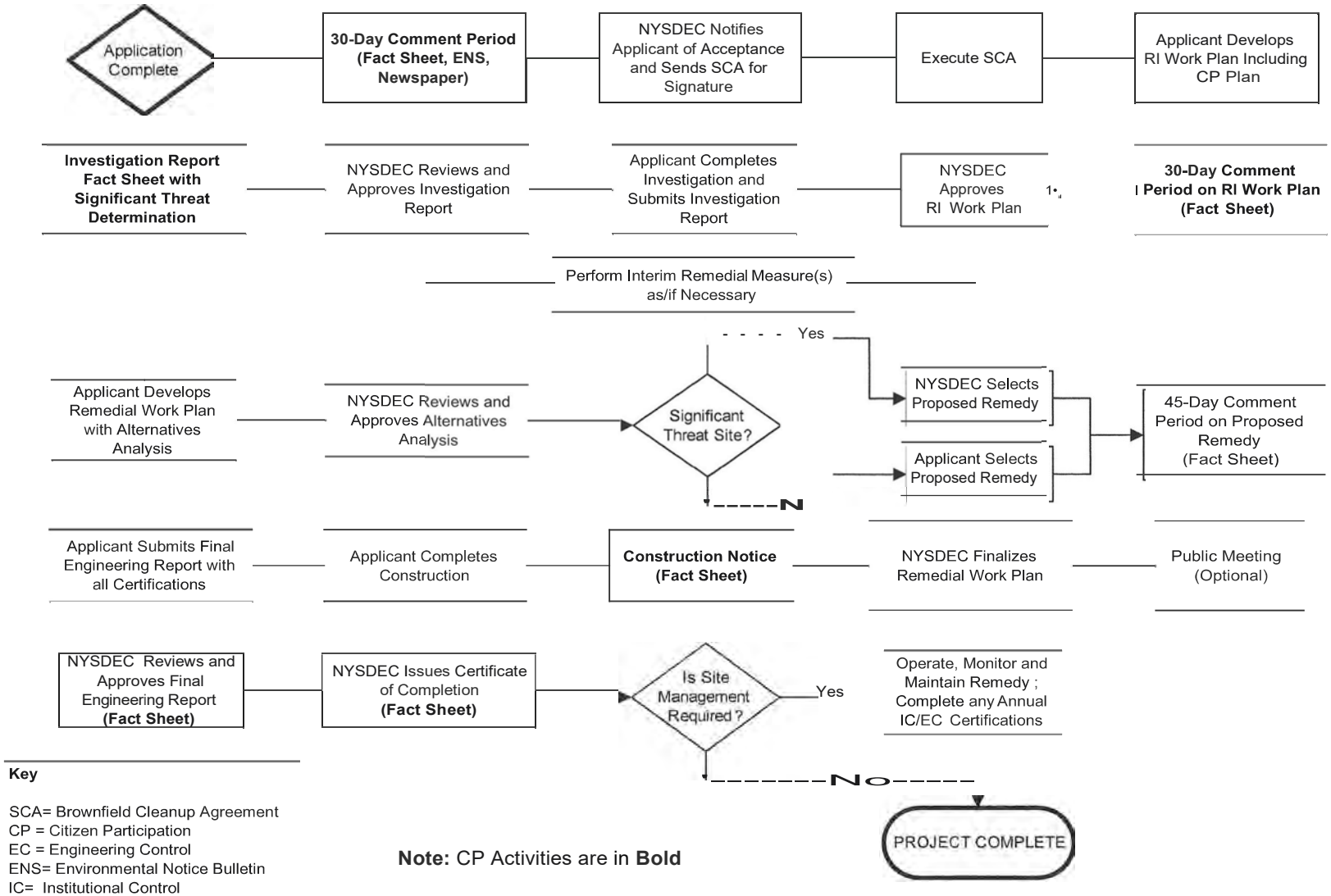
Site Boundary

American Environmental Solutions Inc.

N

Site Name: STILLWELL AVENUE
Address: 1665 -1673 Stillwell Avenue
Brooklyn, NY 11223

Appendix D- Brownfield Cleanup Program Process



Key

SCA= Brownfield Cleanup Agreement
CP = Citizen Participation
EC = Engineering Control
ENS= Environmental Notice Bulletin
IC= Institutional Control
RI = Remedial Investigation

Note: CP Activities are in **Bold**

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation

Remedial Programs
Scoping Sheet for Major Issues of Public Concern

Site Name: 1665 Stillwell Avenue

Site Number: C224307

Site Address and County: 1665 -1673 Stillwell Avenue, Brooklyn (Kings County), NY

Remedial Party(ies): Refulgence LLC

Note: For Parts 1. - 3. the individuals, groups, organizations, businesses, and units of government identified should be added to the site contact list as appropriate.

Part I. List major issues of public concern and information the community wants. Identify individuals, groups, organizations, businesses and/or units of government related to the issue(s) and information needs. **Use this information as an aid to prepare or update the Major Issues of Public Concern section of the site Citizen Participation Plan.**

- The Site is proposed to be redeveloped with a new five story mixed-use building. The building will contain sixteen units of residential housing on floors two through five and commercial use on the first floor.
- The Site's contamination issues stem from the previous occupant use, and historical fill material and surrounding use.
- A Remedial Investigation (RI) was conducted to determine the nature and extent of on-site contamination, identify the source(s), assess the impact on public health and/or the environment, and support the Remedial Action Work Plan (RAWP) to remediate the Site. The RI was completed in accordance with the approved NYCOER Work Plan prepared to facilitate the redevelopment of the Site.
- Contact information is located in Appendix A.
- Adjacent property occupants and owners will be kept informed about the progress of the Site cleanup activities. Periodic fact sheets will be sent by mail.
- Local, state, and federal officials will be contacted about the Site remediation activities.
- The Site will be cleaned up to levels that are safe for the proposed commercial use. Certain uses will be determined once cleanup is complete.

How were these issues and/or information needs identified?
Based upon previous environmental investigations and NYSDEC/NYSDOH requirements.

Part 2. List important information needed **from** the community, if applicable. Identify individuals, groups, organizations, businesses and/or units of government related to the information needed.

- Adjacent property owners and occupants will be informed of the Site remediation activities. They can reach out to the Site's NYSDEC or NYSDOH project manager if they are concerned about the impact to the surrounding area.
- No activities are taking place at the Site that may need to be restricted. The Site is currently vacant and will remain so until it is remediated and redeveloped.

How were these information needs identified?
- A RI was conducted as part of the environmental redevelopment process of the Site.
- A RIR and an RAWP was prepared and submitted to the NYSDEC for approval. A 45-day Public Comment Period begins once the RIR and the RAWP are submitted. The Final RIR and RAWP are submitted to the NYSDEC, and then the NYSDEC issues the Decision Document, which describes the selected remedy for cleanup of the Site. Remediation can begin after the Decision Document is issued.

- Redevelopment of the Site may begin once the Site remediation is completed.
- Document repositories, where copies of all documents regarding the investigation and remediation of the Site are available to the public, have been established at the Brooklyn Public Library-Highlawn Branch, located at 1664 West 13th Street, at Kings Highway, Brooklyn, NY 11223; and at the Brooklyn Community Board 11, located at 2214 Bath Avenue, Brooklyn, NY 11214

Part 3. List major issues and information that need to be communicated **to** the community. Identify individuals, groups, organizations, businesses and/or units of government related to the issue(s) and/or information.

- A Remedial Investigation (RI) was conducted to determine the nature and extent of on-site contamination, identify the source(s), assess the impact on public health and/or the environment, and support the Remedial Action Work Plan (RAWP) to remediate the Site for redevelopment.
- A RAWP will be submitted to NYSDEC and then NYSDEC will issue the Decision Document, which describes the selected remedy for cleanup of the Site. Remediation can begin after the Decision Document is issued. Redevelopment of the Site may begin concurrently with or following completion of the remedial activities.
- Document repositories, where copies of all documents regarding the investigation and remediation of the Site are available to the public have been established at the Brooklyn Public Library-Highlawn Branch, located at 1664 West 13111 Street, at Kings Highway, Brooklyn, NY 11223; and at the Brooklyn Community Board **11,** located at 2214 Bath Avenue, Brooklyn, NY 11214.

How were these issues and/or information needs identified?
These needs were identified by summarizing the proposed project schedule and information presented in the BCP applications.

Part 4. Identify the following characteristics of the affected/interested community. This knowledge will help to identify and understand issues and information important to the community, and ways to effectively develop and implement the site citizen participation plan (mark all that apply):

a. Land use/zoning at and around site:
☒ **Residential** ☐ **Agricultural** ☐ **Recreational** ☒ **Commercial** ☐ **Industrial**

b. Residential type around site:
☒ **Urban** ☐ **Suburban** ☐ **Rural**

c. Population density around site:
☐ **High** ☒ **Medium** ☐ **Low**

d. Water supply of nearby residences:
☒ **Public** ☐ **Private Wells** ☐ **Mixed**

e. Is part or all the water supply of the affected/interested community currently impacted by the site?
☐ **Yes** ☒ **No**

Provide details if appropriate:

f. Other environmental issues significantly impacted/impacting the affected community?
☐ **Yes** ☒ **No**

Provide details if appropriate:

g. Is the site and/or the affected/interested community wholly or partly in an Environmental Justice Area?
☒**Yes** ☐**No**

h. Special considerations:
☒ **Language** ☐ **Age** ☐ **Transportation** ☐ **Other**

Explain any marked categories in **h:**

Part 5. The site contact list must include, at a minimum, the individuals, groups, and organizations identified in the instructions for **Part 5.** Are other individuals, groups, organizations, and units of government affected by, or interested in, the site, or its remedial program? (Mark and identify all that apply, then adjust the site contact list as appropriate.) – see attached contact list

☒ **Non-Adjacent Residents/Property Owners:**

☒**Local Officials:**

☒**Media:**

☐ **Business/Commercial Interests:**

☐ **Labor Group(s)/Employees:**

☐ **Indian Nation:**

☒ **Citizens/Community Group(s):**.

☒ **Environmental Justice Group(s):**

☐ **Environmental Group(s):**

☐ **Civic Group(s):**

☐ **Recreational Group(s):**

☐ **Other(s):**

Prepared/Updated By: Brian Pendergast **Date:** November 8, 2021

Reviewed Approved By: Click here to enter text. **Date:** Click here to enter text.

	A	B	C	D	E	F	G	H	I	J
1										
2	Site Contact List									
3	Site #: C224307									
4	Site Name: Stillwell Avenue Project Site			List Last Updated: 10-27-21						
5		Name, Title	Address 1	Address 2	Address 3	Street Address	City	State	Zip	Site Name (County)
6	**Local Government Officials**	Hon. Bill de Blasio	NYC Mayor			City Hall	New York	NY	10007	Stillwell Avenue Site (Brooklyn)
7		Hon. Scott Stringer	NYC Comptroller			1 Centre Street	New York	NY	10007	Stillwell Avenue Site (Brooklyn)
8		Hon. Juumane Williams	Public Advocate			1 Centre Street	New York	NY	10007	Stillwell Avenue Site (Brooklyn)
9		Anita Laremont	Commissioner, NYC Dept. of City Planning			120 Broadway, 31st Floor	New York	NY	10271	Stillwell Avenue Site (Brooklyn)
10	**Public Water Supplier**	Vincent Sapienza	Commissioner, NYC Dept. of Environmental Protection			59-17 Junction Boulevard	Flushing	NY	11373	Stillwell Avenue Site (Brooklyn)
11		Mark McIntyre, Director	NYC Office of Environmental Remediation			100 Gold Street - 2nd Floor	New York	NY	10038	Stillwell Avenue Site (Brooklyn)
12		Julie Stein	Office of Environmental Assessment & Planning	NYC Dept. of Environmental Protection		96-05 Horace Harding Expressw	Flushing	NY	11373	Stillwell Avenue Site (Brooklyn)
13		Hon. Eric Adams	Brooklyn Borough President			209 Joralemon Street	Brooklyn	NY	11201	Stillwell Avenue Site (Brooklyn)
14		Meghan Medwid	NYSDEC Project Manager			625 Broadway	Albany	NY	12233	Stillwell Avenue Site (Brooklyn)
15		Thomas V. Panzone	NYSDEC Public Participation Specialist			47-40 21st Street	Long Island City	NY	11101	Stillwell Avenue Site (Brooklyn)
16		TBD	NYSDOH Public Health Specialist		Empire State Plaza	Corning Tower, Room 1787	Albany	NY	12237	Stillwell Avenue Site (Brooklyn)
17		Hon Charles Schumer	U.S. Senator			780 Third Avenue, Suite 2301	New York	NY	10017	Stillwell Avenue Site (Brooklyn)
18		Hon. Kirsten Gillibrand	U.S. Senator			780 Third Avenue, Suite 2601	New York	NY	10017	Stillwell Avenue Site (Brooklyn)
19		Hon. Jerrold Nadler	U.S. House of Representatives			6605 Fort Hamilton Parkway	Brooklyn	NY	11219	Stillwell Avenue Site (Brooklyn)
20		Hon. Kalman Yeger	NYC Councilmember			4424 16th Avenue	Brooklyn	NY	11204	Stillwell Avenue Site (Brooklyn)
21		Hon. Simcha Felder	NYS Senator			1412 Avenue J, Suite 2E	Brooklyn	NY	11230	Stillwell Avenue Site (Brooklyn)
22		Hon. William Colton	NYS Assemblymember			155 Kings Highway	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
23	**Community Board**	Marnee Elias-Pavia - District Manager	Brooklyn Community Board 11			2214 Bath Avenue	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
24		William Guarinello - Chairman	Brooklyn Community Board 11			2214 Bath Avenue	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
25		Antonia Trioa – Environmental Committee	Brooklyn Community Board 11			2214 Bath Avenue	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
26	**County Clerk**	Nancy T. Sunshine, County Clerk	Kings County Clerk's Office			360 Adams Street, Room 189	Brooklyn	NY	11201	Stillwell Avenue Site (Brooklyn)
27	**Consolidated Edison**	Antonia Yuille - Director	Consolidated Edison Corporate Affairs			30 Flatbush Avenue	Brooklyn	NY	11217	Stillwell Avenue Site (Brooklyn)
28	**NYPD**	Louis Tromboli - President	62nd Police Precinct Council			1925 Bath Avenue	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
29	**FDNY**	Engine 253	FDNY			2429 86th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
30	**Local Media Outlets**	New York Daily News				4 New York Plaza	New York	NY	10004	Stillwell Avenue Site (Brooklyn)
31		New York Post				1211 Avenue of the Americas	New York	NY	10036	Stillwell Avenue Site (Brooklyn)
32		Spectrum NY 1 News				75 Ninth Avenue	New York	NY	10011	Stillwell Avenue Site (Brooklyn)
33		Brooklyn Daily Eagle				16 Court Street, 30th Floor	Brooklyn	NY	11241	Stillwell Avenue Site (Brooklyn)
34		World Journal (Chinese)				141-07 20th Avenue	Whitestone	NY	11357	Stillwell Avenue Site (Brooklyn)
35		Sing Tao Daily				5510 8th Avenue, Room 202	Brooklyn	NY	11220	Stillwell Avenue Site (Brooklyn)
36		Courier-Life Publications				1 Metrotech Center #10T	Brooklyn	NY	11201	Stillwell Avenue Site (Brooklyn)
37		The Brooklyn Papers				1 Metrotech Center, 3rd Floor	Brooklyn	NY	11201	Stillwell Avenue Site (Brooklyn)
38	**School and Daycare Facilities**	Gold Material Montessori School	Maksim Kondrukevich			105 Kings Hwy	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
39		Intermediate School 96	Erin, Lynch, Principal			99 Avenue P	Brooklyn	NY	11204	Stillwell Avenue Site (Brooklyn)
40		PS 97 -The Highlawn	Irina Cabello, Principal			1855 Stillwell Avenue	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
41		Hebrew Language Academy Charter School 2	Ashley Furan, Head of School			1870 Stillwell Avenue	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
42		Brooklyn School of Inquiry	Debra Nier, Administrative Secretary			50 Avenue P, 4th Floor	Brooklyn	NY	11204	Stillwell Avenue Site (Brooklyn)
43		Success Academy	Kerri Lynch, Principal			99 Avenue P, Floor 4	Brooklyn	NY	11204	Stillwell Avenue Site (Brooklyn)
44		PS 128 Bensonhurst	Jessica Drzewucki, Principal / Administrator			2075 4th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
45		Sinai Academy Junior High and High School				2025 79th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
46		St. Peter Catholic Academy	Rabbi Aryeh Katzin			8401 23rd Avenue	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
47		Atidaynu - Our Future School, LLC	Simi Bazov, Principal			7914 Bay Parkway	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
48		Stillwell Avenue Prep & Nursery	Candy Juba, Executive Director			1990 Stillwell Avenue	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
49		Brooklyn Studio Secondary School	Andrea Cilliotta, Principal			8310 21st Avenue	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
50		Magen David Yeshivah Celia Esses High Schoo	Rabbi Saul Zucker, Principal			7801 Bay Parkway	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
51		Edith and Karl Marks JCH of Bensonhurst				7802 BAY PARKWAY	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
52	**Community, Civic, Religious and Other Environmental Organizations**									Stillwell Avenue Site (Brooklyn)
53		Asian Chinese United Society				1884 86th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
54		Brooklyn Chinese American Association				6701 20th Avenue	Brooklyn	NY	11204	Stillwell Avenue Site (Brooklyn)
55		Federation of Italian American Organizations				8711 18th Avenue	Brooklyn	NY	11204	Stillwell Avenue Site (Brooklyn)
56		National Federation – Italian American Societies				7704 17th Ave	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
57		United Chinese Association				1787 Stillwell Ave	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
58	**Adjacent Properties**	Goodview LLC				1663 Stillwell Avenue	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
59		Greenview Queens Realty LLC				126-136 Kings Hwy	Brooklyn	NY	11229	Stillwell Avenue Site (Brooklyn)
60		Peter Konstas/Maria Konstas				1677 Stillwell Avenue	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
61		Anchor Equity Holding LLC				1672-1674 West 13th Street	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
62		Brooklyn Public Library				1664-1670 West 13th Street	Brooklyn	NY	11223	Stillwell Avenue Site (Brooklyn)
63		Gao Ming Yang				2271 78th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
64		Yan Fen Yang				2271 78th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
65		Zheng Jian				2271 78th Street	Brooklyn	NY	11214	Stillwell Avenue Site (Brooklyn)
66										

Appendix D – Geophysical Investigation Report

RSK Environmental Group

BROOKLYN: 3611 14TH AVE. Suite #551 Brooklyn NY 11218 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

GEOPHYSICAL INVESTIGATION REPORT

for

1665 Stillwell Avenue,
Brooklyn, New York 11223

Prepared for:
Refulgence LLC
8738 20th Avenue,
Brooklyn, NY 11214

Prepared by:
RSK Environmental Group LLC
132-02 89th Avenue, Suite 222,
Richmond Hill, New York 11418

May 6, 2022

Introduction

This report presents the results of the limited geophysical survey undertaken at 1665 Stillwell Avenue, Brooklyn, NY, completed on May 5, 2022. Currently, the site is a construction zone. A building once inhabiting the rear of the property was now demolished. Surface conditions consisted of asphalt, concrete, and dirt. Subsurface conditions were unknown at the time of the survey. The area of interest consisted of all accessible areas of the property.

Survey Objectives

- Investigate all accessible areas of the property for subsurface anomalies suspected to be underground storage tank (USTs) and/or UST- related piping.
- Locate and mark detectable underground utilities in accessible areas of the property.

Equipment

GSSI SIR-4000 Cart Mounted Ground Penetrating Radar System

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

The antenna utilized is a 350MHz HS antenna mounted in 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.

Radiodetection RD7100 Receiver and TX-5 Transmitter

The RD7100 locator 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 radio signals travelling along conductive utilities. Active tracing is used in conjunction with a transmitter that is directly connected to the target utility. A current 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 many others.

TW-6 Pipe and Cable Locator

The TW-6 uses a transmitter-receiver pair that are attached to opposite end of handle that can detect buried metallic objects. The device works by inducing an electromagnetic field into the ground that is generated by the transmitter. Once the induced field passes through a buried metallic object, it couples energy into the object and generates a secondary field detected by the receiver, which then generates an audible tone.

Process

1. A utility survey of the property is performed by active and passive detection methods utilizing the RD7100 receiver and TX-5 transmitter. RSK personnel direct connects to all accessible and traceable pipes, conduits, valve covers, and any other surface feature throughout the site. A passive scan is then performed throughout the site to detect any

potential underground utilities that could not be located with active scan. All detected utilities are marked on-site in appropriate colors.

2. The TW-6 is used to sweep the entirety of the site 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 is marked on the surface to be investigated further with GPR.
3. GPR is used to further characterize the approximate dimensions, depth, and shape of the anomalies located with the TW-6. The remainder of the site is 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.

Summary of Findings

Metallic Area

A metallic area was detected with the TW-6 in the northeastern corner of the property. Approximate dimensions measure 8-feet by 8-feet. GPR transects over the area did not image any discernable features.

Utility Survey

RSK personnel conducted a utility survey on all accessible areas of the property. The utilities identified include electric, water, unknown, and sanitary sewer.

A map with all located subsurface features is attached to this report.

Limitations

The effective depth of GPR penetration was limited to 1 to 3 feet bgs. The limiting factor was due to soil conductivity attenuating the GPR signal.

Disclaimer

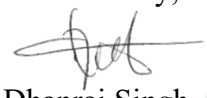
The survey was performed by RSK after considering the limits of the scope of work and the time constraint for the survey. The survey that is described in this report was undertaken in accordance with current accepted standards and practices of the geophysical survey industry. The results and interpretations 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. RSK is not liable for the use, interpretation, or application of the data and information in this report.

Prepared by,



Bradley Moore
Geologist

Reviewed by,



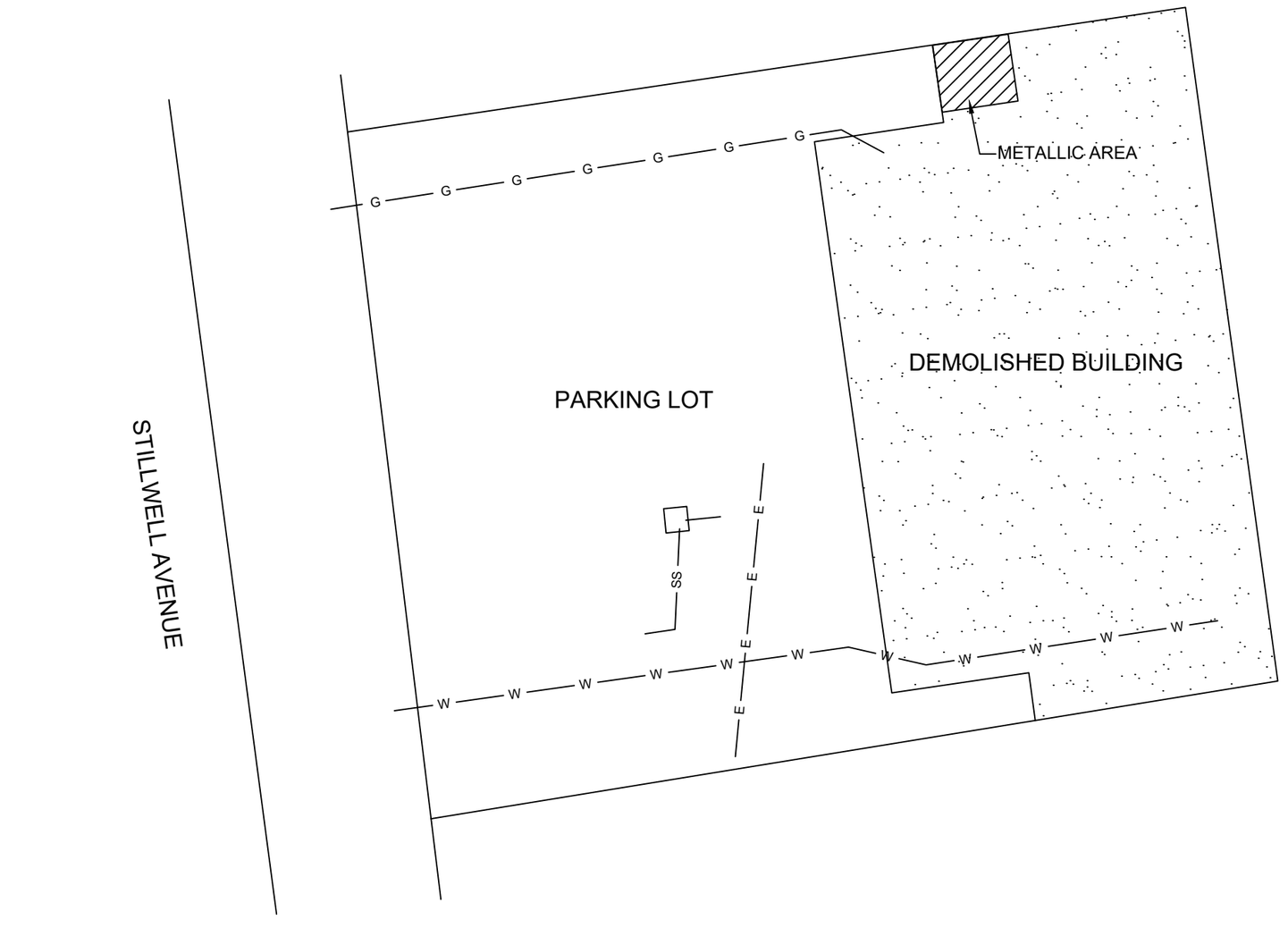
Dhanraj Singh
Sr. Project Manager

Submitted by,



Sam Rosenbaum
Managing Director

Figures



PREPARED BY:

RSK ENVIRONMENTAL LLC
132-02 89TH AVE, SUITE #222
RICHMOND HILL, NY 11418
(T) 718-438-2200

PREPARED FOR:

REFULGENCE LLC
8738 20TH AVENUE,
BROOKLYN, NY, 11214

REVISION DATA:

REV	DATE	COMMENT	BY

SCALE (FEET): 1" = 16'

PROJECT NAME:

1665 STILLWELL AVE, BROOKLYN, NY, 11223

DRAWING TITLE:

GEOPHYSICAL INVESTIGATION REPORT

DRAWING DATA:	DRAWING NO:
DATE: 5-6-22 PROJECT NO: DRAWN BY: BM CHECK BY: DS	

LEGEND:

- E — ELECTRIC
- G — GAS
- SS — SANITARY SEWER
- W — WATER

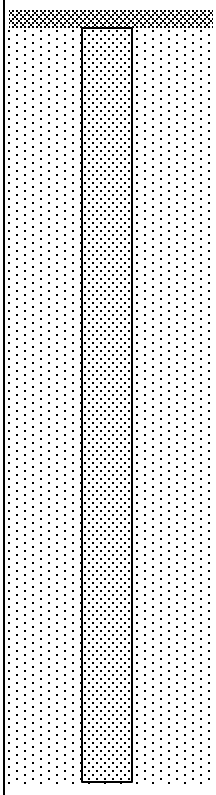
Appendix E – Soil Boring Logs

RSK Environmental Group

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

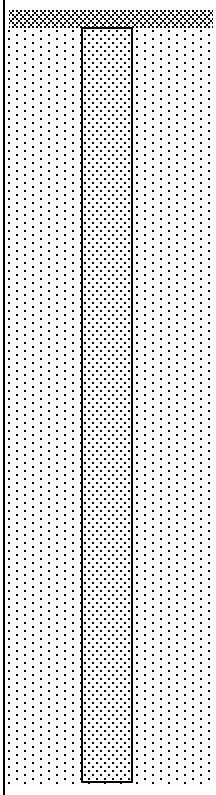
Boring No: SB-1

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**36**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**48**	**0.0**	Dark brown silty clay soil to dark brown coarse sand at 9-10 feet
	7			
	8			
	9			
	10			
	11	**36**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

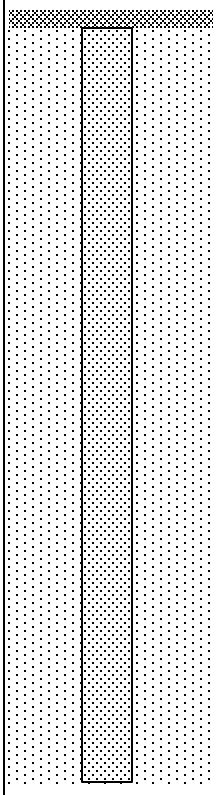
Boring No: SB-2

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**32**	**1.4**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**46**	**0.0**	Dark brown silty clay soil to dark brown coarse sand at 8-feet
	7			
	8			
	9			
	10			
	11	**38**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

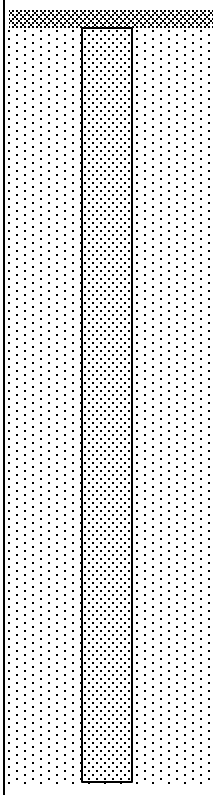
Boring No: SB-3

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**40**	**0.0**	Dark brown coarse sandy soil
	1			
	2			
	3			
	4			
	5			
	6	**46**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**48**	**0.3**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

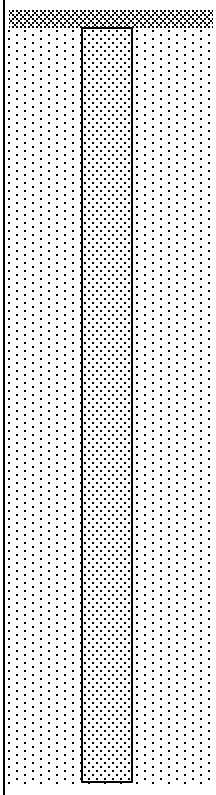
Boring No: SB-4

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**48**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**59**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**42**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

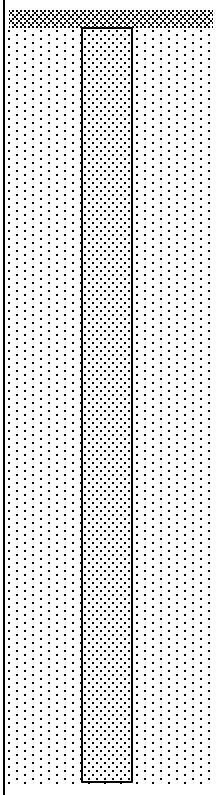
Boring No: SB-5

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**26**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**36**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**38**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

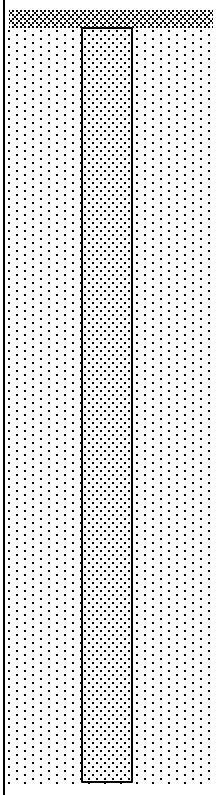
Boring No: SB-6

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**45**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**36**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**42**	**0.2**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

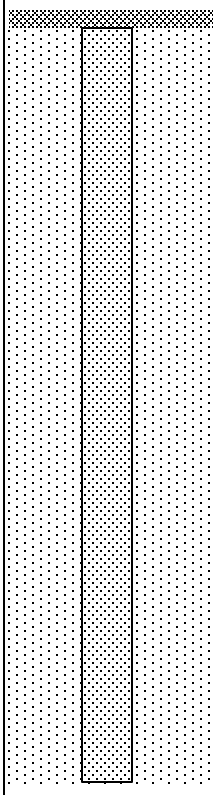
Boring No: SB-7

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**52**	**0.3**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**51**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**56**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

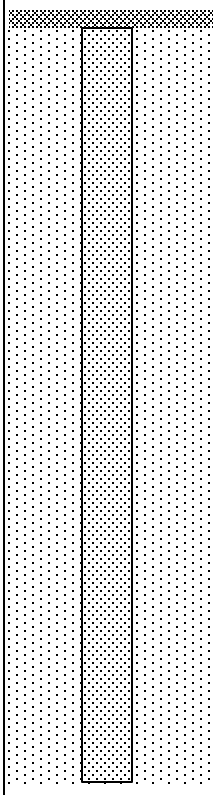
Boring No: SB-8

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**48**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**38**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**48**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

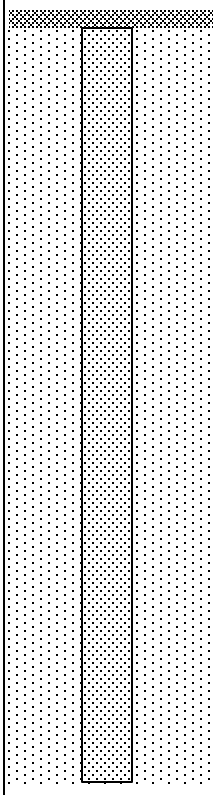
Boring No: SB-9

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**36**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**48**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**36**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

BROOKLYN: 3611 14TH AVE. Suite #508B Brooklyn NY 11219 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

BORING LOGS

Boring No: SB-10

Site Name:	1665 Stillwell Avenue, Brooklyn, NY			
Address:	1665 Stillwell Avenue, Brooklyn, NY			
Technician:	Brad	**Date:** 5-26-22	**Method:** Macro-core	GEOPROBE Track-mounted Drill Rig
BORING	**DEPTH (ft.)**	**SAMPLES**		**SOIL DESCRIPTION**
		Recovery (in.)	**PID (ppm)**	
	**0**	**36**	**0.0**	Dark brown silty clay soil
	1			
	2			
	3			
	4			
	5			
	6	**48**	**0.0**	Dark brown coarse sandy soil
	7			
	8			
	9			
	10			
	11	**48**	**0.0**	Dark brown coarse sandy soil
	12			
	13			
	14			
	15			
	16			

Appendix F – Well Construction Logs and Well Sampling Log

RSK WELL SAMPLING DATA FORM

Prepared By: Drumita Dmello

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

NYSDEC Site No.:	C224307	Date:	5/31/2022
Site Address:	1665 Stillwell Avenue, Brooklyn, NY		

Well ID: GW-1/SB-2	Well Type / Diameter: 2" SCH 40 PVC GW wells	Condition:	(G) (F) (D)

Cement Seal Intact:	(Y) (N)	Depth to Bottom of Well:	25.6 Feet
Water in Manhole:	(Y) (N)	Depth to Water:	17.5 Feet
Manhole Cover Intact:	(Y) (N)	Depth to Product:	Feet
PVC Casing Intact:	(Y) (N)	Water Column:	8.10 Feet
Cap/Cover Sealed:	(Y) (N)	Volume of Water in Well:	1.32 Gal.
PID Readings:	(Y) (N) 5.5ppm	Volume of Water Removed:	5 Gal.

Method of Purge: Peristaltic Pump	Time – Start: 1:44 Stop: 1:50 Rate of Purge: 0.85 GPM

Water Quality/Field Measurements:

Before Purge:	After 1st Purge:	After 2nd Purge:
pH: 7.12	pH: 7.25	pH: 6.98
Temp.: 25.43°C	Temp.: 20.18°C	Temp.: 21.84°C
ORP: -27 mV	ORP: -76 mV	ORP: -50 mV
DO: 8.27 mg/L / 98.3%	DO: 4.50 mg/L / 50%	DO: 5.56 mg/L / 63.1%
Turbidity: 653 NTU	Turbidity: 411 NTU	Turbidity: 146 NTU
After 3rd Purge:	**After 4th Purge:**	**After Sampling:**
pH: 7.06	pH:	pH:
Temp.: 19.96°C	Temp.:	Temp.:
ORP: -46 mV	ORP:	ORP:
DO: 2.83 mg/L / 31.3%	DO:	DO:
Turbidity: 47.7 NTU	Turbidity:	Turbidity:

Method of Sampling: Low Flow | DTW: 17.50 Feet	Time – Start: 1:50 Stop: 2:00 Rate of Sampling: 0.1 GPM

IRSK WELL SAMPLING DATA FORM

Prepared By: Drumita Dmello

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

NYSDEC Site No.:	C224307	Date:	5/31/2022
Site Address:	1665 Stillwell Avenue, Brooklyn, NY		

Well ID: GW-2/SB-7	Well Type / Diameter: 2" SCH 40 PVC GW wells	Condition:	(G) (F) (D)

Cement Seal Intact:	(Y) (N)	Depth to Bottom of Well:	25 Feet
Water in Manhole:	(Y) (N)	Depth to Water:	17.15 Feet
Manhole Cover Intact:	(Y) (N)	Depth to Product:	Feet
PVC Casing Intact:	(Y) (N)	Water Column:	7.85 Feet
Cap/Cover Sealed:	(Y) (N)	Volume of Water in Well:	1.28 Gal.
PID Readings:	(Y) (N) 0.5ppm	Volume of Water Removed:	5 Gal.

Method of Purge: Peristaltic Pump	Time – Start: 3:44 Stop: 3:50 Rate of Purge: 0.85 GPM

Water Quality/Field Measurements:

Before Purge:	After 1st Purge:	After 2nd Purge:
pH: 7.54	pH: 7.44	pH:
Temp.: 22.22°C	Temp.: 19.45°C	Temp.:
ORP: -125 mV	ORP: -102 mV	ORP:
DO: 6.37 mg/L / 73%	DO: 9.99 mg/L / 109.3%	DO:
Turbidity: 107 NTU	Turbidity: 41.3 NTU	Turbidity:
After 3rd Purge:	**After 4th Purge:**	**After Sampling:**
pH:	pH:	pH:
Temp.:	Temp.:	Temp.:
ORP:	ORP:	ORP:
DO:	DO:	DO:
Turbidity:	Turbidity:	Turbidity:

Method of Sampling: Low Flow | DTW: 17.15 Feet	Time – Start: 3:50 Stop: 4:00 Rate of Sampling: 0.1 GPM

RSK WELL SAMPLING DATA FORM

Prepared By: Drumita Dmello

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

NYSDEC Site No.:	C224307	Date:	5/31/2022
Site Address:	1665 Stillwell Avenue, Brooklyn, NY		

Well ID: GW-3/SB-3	Well Type / Diameter: 2" SCH 40 PVC GW wells	Condition:	(G) (F) (D)

Cement Seal Intact:	(Y) (N)	Depth to Bottom of Well:	25.05 Feet
Water in Manhole:	(Y) (N)	Depth to Water:	16.68 Feet
Manhole Cover Intact:	(Y) (N)	Depth to Product:	Feet
PVC Casing Intact:	(Y) (N)	Water Column:	8.37 Feet
Cap/Cover Sealed:	(Y) (N)	Volume of Water in Well:	1.37 Gal.
PID Readings:	(Y) (N) 12.1 ppm	Volume of Water Removed:	5 Gal.

Method of Purge: Peristaltic Pump	Time – Start: 1:39 Stop: 1:45 Rate of Purge: 0.85 GPM

Water Quality/Field Measurements:

Before Purge:	After 1st Purge:	After 2nd Purge:
pH: 7.26	pH: 6.92	pH: 6.86
Temp.: 21.21°C	Temp.: 22.09°C	Temp.: 19.84°C
ORP: -102 mV	ORP: -102 mV	ORP: -90 mV
DO: 3.74 mg/L / 42.7%	DO: 3.73 mg/L / 42.9%	DO: 2.05 mg/L / 22.5%
Turbidity: 242 NTU	Turbidity: 136 NTU	Turbidity: 79.5 NTU
After 3rd Purge:	**After 4th Purge:**	**After Sampling:**
pH: 6.78	pH:	pH:
Temp.: 19.34°C	Temp.:	Temp.:
ORP: -94 mV	ORP:	ORP:
DO: 5.59 mg/L / 6.09%	DO:	DO:
Turbidity: 46.4 NTU	Turbidity:	Turbidity:

Method of Sampling: Low Flow | DTW: 16.68 Feet	Time – Start: 1:45 Stop: 1:55 Rate of Sampling: 0.1 GPM

RSK WELL SAMPLING DATA FORM

Prepared By: Drumita Dmello

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

NYSDEC Site No.:	C224307	Date:	5/31/2022
Site Address:	1665 Stillwell Avenue, Brooklyn, NY		

Well ID: GW-4/SB-4	Well Type / Diameter: 2" SCH 40 PVC GW wells	Condition:	(G) (F) (D)

Cement Seal Intact:	(Y) (N)	Depth to Bottom of Well:	25.03 Feet
Water in Manhole:	(Y) (N)	Depth to Water:	17.35 Feet
Manhole Cover Intact:	(Y) (N)	Depth to Product:	Feet
PVC Casing Intact:	(Y) (N)	Water Column:	7.67 Feet
Cap/Cover Sealed:	(Y) (N)	Volume of Water in Well:	1.25 Gal.
PID Readings:	(Y) (N) 7.5ppm	Volume of Water Removed:	5 Gal.

Method of Purge: Peristaltic Pump	Time – Start: 4:24 Stop: 4:30 Rate of Purge: 0.85 GPM

Water Quality/Field Measurements:

Before Purge:	After 1st Purge:	After 2nd Purge:
pH: 7.34	pH: 7.36	pH: 7.51
Temp.: 20.20°C	Temp.: 21.20°C	Temp.: 20.86°C
ORP: -100 mV	ORP: -104 mV	ORP: -130 mV
DO: 3.96 mg/L / 48.3%	DO: 6.89 mg/L / 78.5%	DO: 3.41 mg/L / 38.4%
Turbidity: 94.4 NTU	Turbidity: 76.0 NTU	Turbidity: 50.4
After 3rd Purge:	**After 4th Purge:**	**After Sampling:**
pH:	pH:	pH:
Temp.:	Temp.:	Temp.:
ORP:	ORP:	ORP:
DO:	DO:	DO:
Turbidity:	Turbidity:	Turbidity:

Method of Sampling: Low Flow | DTW: 17.35 Feet	Time – Start: 4:30 Stop: 4:40 Rate of Sampling: 0.1 GPM

RSK WELL SAMPLING DATA FORM

Prepared By: Drumita Dmello

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

NYSDEC Site No.:	C224307	Date:	5/31/2022
Site Address:	1665 Stillwell Avenue, Brooklyn, NY		

Well ID: GW-5/SB-5	Well Type / Diameter: 2" SCH 40 PVC GW wells	Condition:	(G) (F) (D)

Cement Seal Intact:	(Y) (N)	Depth to Bottom of Well:	25.5 Feet
Water in Manhole:	(Y) (N)	Depth to Water:	17.19 Feet
Manhole Cover Intact:	(Y) (N)	Depth to Product:	Feet
PVC Casing Intact:	(Y) (N)	Water Column:	8.31 Feet
Cap/Cover Sealed:	(Y) (N)	Volume of Water in Well:	1.36 Gal.
PID Readings:	(Y) (N) 0.5 ppm	Volume of Water Removed:	5 Gal.

Method of Purge: Peristaltic Pump	Time – Start: 3:04 Stop: 3:10 Rate of Purge: 0.85 GPM

Water Quality/Field Measurements:

Before Purge:	After 1st Purge:	After 2nd Purge:
pH: 7.22	pH: 7.23	pH: 6.98
Temp.: 20.85 °C	Temp.: 20.17°C	Temp.: 23.67°C
ORP: -126 mV	ORP: -102 mV	ORP: -107 mV
DO: 4.74 mg/L / 53.6%	DO: 4.57 mg/L / 50.6%	DO: 6.22 mg/L / 73.5%
Turbidity: 107 NTU	Turbidity: 95.5 NTU	Turbidity: 26.6 NTU
After 3rd Purge:	**After 4th Purge:**	**After Sampling:**
pH:	pH:	pH:
Temp.:	Temp.:	Temp.:
ORP:	ORP:	ORP:
DO:	DO:	DO:
Turbidity:	Turbidity:	Turbidity:

Method of Sampling: Low Flow | DTW: 17.19 Feet	Time – Start: 3:10 Stop: 3:20 Rate of Sampling: 0.1 GPM

RSK WELL SAMPLING DATA FORM

Prepared By: Drumita Dmello

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

NYSDEC Site No.:	C224307	Date:	5/31/2022
Site Address:	1665 Stillwell Avenue, Brooklyn, NY		

Well ID: GW-6/SB-6	Well Type / Diameter: 2" SCH 40 PVC GW wells	Condition:	(G) (F) (D)

Cement Seal Intact:	(Y) (N)	Depth to Bottom of Well:	25.0 Feet
Water in Manhole:	(Y) (N)	Depth to Water:	16.70 Feet
Manhole Cover Intact:	(Y) (N)	Depth to Product:	Feet
PVC Casing Intact:	(Y) (N)	Water Column:	8.3 Feet
Cap/Cover Sealed:	(Y) (N)	Volume of Water in Well:	1.35 Gal.
PID Readings:	(Y) (N) 0.2 ppm	Volume of Water Removed:	5 Gal.

Method of Purge: Peristaltic Pump	Time – Start: 12:44 Stop: 12:50 Rate of Purge: 0.85 GPM

Water Quality/Field Measurements:

Before Purge:	After 1st Purge:	After 2nd Purge:
pH: 8.43	pH: 8.54	pH: 7.12
Temp.: 26.34°C	Temp.: 22.01°C	Temp.: 21.23°C
ORP: -46 mV	ORP: -109 mV	ORP: -50 mV
DO: 9.01 mg/L / 110%	DO: 6.62 mg/L / 75.3%	DO: 9.15 mg/L / 101.9%
Turbidity: 256 NTU	Turbidity: 141 NTU	Turbidity: 29.1 NTU
After 3rd Purge:	**After 4th Purge:**	**After Sampling:**
pH:	pH:	pH:
Temp.:	Temp.:	Temp.:
ORP:	ORP:	ORP:
DO:	DO:	DO:
Turbidity:	Turbidity:	Turbidity:

Method of Sampling: Low Flow | DTW: 16.70 Feet	Time – Start: 12:50 Stop: 1:00 Rate of Sampling: 0.1 GPM

Appendix G – Analytical Data Reports

PHOENIX
Environmental Laboratories, Inc.

Tuesday, June 14, 2022

Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Project ID: 1665 STILLWELL AVENUE
SDG ID: GCL40162
Sample ID#s: CL40162 - CL40199

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,



Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

June 14, 2022

SDG I.D.: GCL40162

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

June 14, 2022

SDG I.D.: GCL40162

Project ID: 1665 STILLWELL AVENUE

Client Id	Lab Id	Matrix
SB-1 (0-2`)	CL40162	SOIL
SB-1 (6-8`)	CL40163	SOIL
SB-1 (14-16`)	CL40164	SOIL
SB-2 (0-2`)	CL40165	SOIL
SB-2 (6-8`)	CL40166	SOIL
SB-2 (14-16`)	CL40167	SOIL
SB-3 (0-2`)	CL40168	SOIL
SB-3 (6-8`)	CL40169	SOIL
SB-3 (14-16`)	CL40170	SOIL
SB-4 (0-2`)	CL40171	SOIL
SB-4 (6-8`)	CL40172	SOIL
SB-4 (14-16`)	CL40173	SOIL
SB-5 (0-2`)	CL40174	SOIL
SB-5 (6-8`)	CL40175	SOIL
SB-5 (14-16`)	CL40176	SOIL
SB-6 (0-2`)	CL40177	SOIL
SB-6 (6-8`)	CL40178	SOIL
SB-6 (14-16`)	CL40179	SOIL
SB-7 (0-2`)	CL40180	SOIL
SB-7 (6-8`)	CL40181	SOIL
SB-7 (14-16`)	CL40182	SOIL
SB-8 (0-2`)	CL40183	SOIL
SB-8 (6-8`)	CL40184	SOIL
SB-8 (14-16`)	CL40185	SOIL
SB-9 (0-2`)	CL40186	SOIL
SB-9 (6-8`)	CL40187	SOIL
SB-9 (14-16`)	CL40188	SOIL
SB-10 (0-2`)	CL40189	SOIL
SB-10 (6-8`)	CL40190	SOIL
SB-10 (14-16`)	CL40191	SOIL

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

June 14, 2022

SDG I.D.: GCL40162

Project ID: 1665 STILLWELL AVENUE

Client Id	Lab Id	Matrix
FD-1	CL40192	SOIL
FD-2	CL40193	SOIL
SB-6 PFAS FB-1	CL40194	LIQUID
TB-1 LL	CL40195	SOIL
FB-1	CL40196	LIQUID
EQUIPMENT BLANK	CL40197	LIQUID
SB-1 PFAS FB-2	CL40198	SOIL
TB-1 HL	CL40199	SOIL

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:00
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40162

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	15400	39	7.7	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	5.95	0.77	0.77	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	56.2	0.8	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.67	0.31	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	2500	3.9	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.65	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	11.0	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	24.2	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	17.7	0.8	0.39	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	22100	39	39	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.03	0.03	0.02	mg/Kg	1	05/31/22	IE	SW7471B	
Potassium	1160	8	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3860	3.9	3.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	331	3.9	3.9	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	84	8	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	35.5	0.39	0.39	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	19.9	0.8	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.9	3.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	24.2	0.39	0.39	mg/kg	1	05/31/22		CALC 6010-7196	
Vanadium	33.8	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	39.5	0.8	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	84			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.44	0.44	mg/Kg	1	05/31/22	MCH	SW7196A	
pH at 25C - Soil	7.66	1.00	1.00	pH Units	1	05/28/22 02:16	MW/JW	SW846 9045D	1
Redox Potential	13.9			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (0-2`)

Phoenix I.D.: CL40162

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.50	0.248	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.279	0.0285	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.279	0.0736	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.279	0.116	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.279	0.116	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.279	0.0571	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.279	0.0549	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.279	0.0520	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.279	0.223	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.279	0.0571	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.279	0.0836	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.279	0.0507	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.279	0.0346	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.279	0.0734	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.279	0.204	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.279	0.0666	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.279	0.0488	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	0.789	0.279	0.0860	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.279	0.102	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.279	0.0833	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.279	0.0485	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.279	0.130	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	74.2			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	75.8			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	109			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	93.7			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	61.1			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	98.2			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	75.3			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	69.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	85.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	84.6			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	62.8			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	59.7			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	56.0			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	74.2			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	69.7			%	1	06/09/22	***	25 - 150 %	C

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Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (0-2`)

Phoenix I.D.: CL40162

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	67.2			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	88.2			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	63.2			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	78	78	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	47			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	42			%	2	05/31/22	SC	30 - 150 %	
% TCMX	39			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	41			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	39	39	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.6	1.6	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.8	7.8	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	39	39	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	160	160	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	36			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	40			%	2	06/02/22	AW	30 - 150 %	
% TCMX	38			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	44			%	2	06/02/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (0-2`)

Phoenix I.D.: CL40162

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	21	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	21	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	21	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	8.6	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.3	1.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	26	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	8.6	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	4.3	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	520	330	66	ug/Kg	50	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	8.6	2.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	8.6	2.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.3	0.86	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	94			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	105			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/31/22	JLI	70 - 130 %	
% 1,2-dichlorobenzene-d4 (50x)	101			%	50	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene (50x)	94			%	50	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane (50x)	99			%	50	05/31/22	JLI	70 - 130 %	
% Toluene-d8 (50x)	98			%	50	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	200	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	280	97	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	200	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (0-2`)

Phoenix I.D.: CL40162

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylphenol (o-cresol)	ND	280	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	280	250	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	280	150	ug/Kg	1	05/31/22	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND	200	190	ug/Kg	1	05/31/22	WB	SW8270D	
3-Nitroaniline	ND	390	790	ug/Kg	1	05/31/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	240	79	ug/Kg	1	05/31/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloroaniline	ND	310	180	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitroaniline	ND	390	130	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitrophenol	ND	390	180	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthylene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
Acetophenone	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
Aniline	ND	310	310	ug/Kg	1	05/31/22	WB	SW8270D	
Anthracene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benz(a)anthracene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzidine	ND	390	230	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(a)pyrene	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(b)fluoranthene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(ghi)perylene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(k)fluoranthene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzoic acid	ND	2000	790	ug/Kg	1	05/31/22	WB	SW8270D	
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
Carbazole	ND	200	160	ug/Kg	1	05/31/22	WB	SW8270D	
Chrysene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenz(a,h)anthracene	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenzofuran	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
Diethyl phthalate	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
Dimethylphthalate	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-butylphthalate	ND	280	100	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-octylphthalate	ND	280	100	ug/Kg	1	05/31/22	WB	SW8270D	
Fluoranthene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Fluorene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobenzene	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobutadiene	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachloroethane	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
Isophorone	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D	
Naphthalene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
Nitrobenzene	ND	200	140	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodimethylamine	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (0-2`)

Phoenix I.D.: CL40162

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	280	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	240	150	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D
Phenol	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	280	97	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	73			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	77			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	73			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	78			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	82			%	1	05/31/22	WB	30 - 130 %

1,4-Dioxane

1,4-dioxane	ND	77	77	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	62			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	47			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	87			%	1	05/31/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:10
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40163

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	13000	40	8.0	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	4.28	0.80	0.80	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	38.2	0.8	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.53	0.32	0.16	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	916	4.0	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.47	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	9.93	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	23.6	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	11.8	0.8	0.40	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	20500	40	40	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	1	05/31/22	IE	SW7471B	
Potassium	740	8	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	2340	4.0	4.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	298	4.0	4.0	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	84	8	3.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	21.7	0.40	0.40	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	9.5	0.8	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	4.0	4.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.6	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.6	1.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	23.6	0.40	0.40	mg/kg	1	05/31/22		CALC 6010-7196	
Vanadium	29.7	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	31.8	0.8	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	86			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.40	0.40	mg/Kg	1	05/31/22	MCH	SW7196A	
pH at 25C - Soil	6.83	1.00	1.00	pH Units	1	05/28/22 02:16	MW/JW	SW846 9045D	1
Redox Potential	34.4			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Phoenix I.D.: CL40163

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.58	0.291	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.296	0.0303	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.296	0.0782	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.296	0.124	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.296	0.124	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.296	0.0607	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.296	0.0584	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.296	0.0554	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.296	0.237	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.296	0.0607	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.296	0.0889	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.296	0.0539	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.296	0.0367	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.296	0.0781	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.296	0.217	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.296	0.0709	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.296	0.0519	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.296	0.0915	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.296	0.109	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.296	0.0885	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.296	0.0516	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.296	0.138	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	65.2			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	72.2			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	82.7			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	74.6			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	51.3			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	85.8			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	72.8			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	69.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	77.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	84.5			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	50.1			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	57.6			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	50.8			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	77.9			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	56.7			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Phoenix I.D.: CL40163

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	63.7			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	88.0			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	59.8			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	64			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	52			%	2	05/31/22	SC	30 - 150 %	
% TCMX	57			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	60			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.8	3.8	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.8	3.8	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.8	3.8	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	38	38	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.8	3.8	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.8	3.8	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	38	38	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	53			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	60			%	2	06/02/22	AW	30 - 150 %	
% TCMX	55			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	62			%	2	06/02/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Phoenix I.D.: CL40163

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	20	4.0	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	20	4.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	20	4.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	7.9	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.0	1.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Phoenix I.D.: CL40163

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	24	4.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	7.9	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.0	4.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	14	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	7.9	2.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	7.9	2.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.0	0.79	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.0	0.40	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	103			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	270	240	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Phoenix I.D.: CL40163

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	380	770	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	230	77	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	380	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	310	310	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	380	230	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	99	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	190	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	270	99	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	190	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	190	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	230	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (6-8`)

Phoenix I.D.: CL40163

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	270	94	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	86			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	74			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	81			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	78			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	79			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	80			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	77	77	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	65			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	57			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	90			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:15
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40164

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5530	36	7.2	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.82	0.72	0.72	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	39.2	0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.39	0.29	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	1590	3.6	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.94	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	15.8	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	34.7	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	20.0	0.7	0.36	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	13600	36	36	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	1	05/31/22	IE	SW7471B	
Potassium	976	7	2.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	4720	3.6	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	364	3.6	3.6	mg/Kg	10	06/02/22	EK	SW6010D	
Sodium	183	7	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	148	3.6	3.6	mg/Kg	10	06/02/22	EK	SW6010D	
Lead	12.1	0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.6	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	34.7	0.36	0.36	mg/kg	1	05/31/22		CALC 6010-7196	
Vanadium	19.4	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	36.2	0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	92			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.37	0.37	mg/Kg	1	05/31/22	MCH	SW7196A	
pH at 25C - Soil	7.22	1.00	1.00	pH Units	1	05/28/22 02:16	MW/JW	SW846 9045D	1
Redox Potential	-12.0			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (14-16`)

Phoenix I.D.: CL40164

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.54	0.272	mg/Kg	1	05/31/22	M/C/B/G	SW9012B	
Client MS/MSD	Completed					05/31/22			
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.257	0.0263	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.257	0.0679	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.257	0.107	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.257	0.107	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.257	0.0527	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.257	0.0507	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.257	0.0480	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.257	0.206	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.257	0.0527	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.257	0.0772	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.257	0.0468	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.257	0.0319	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.257	0.0678	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.257	0.188	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.257	0.0615	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.257	0.0451	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.257	0.0794	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.257	0.0946	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.257	0.0769	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.257	0.0448	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.257	0.120	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	70.2			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	67.9			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	67.5			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	82.7			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	46.9			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	91.8			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	92.0			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	75.5			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	80.5			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	84.5			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	68.1			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	68.0			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	59.3			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	78.8			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	78.0			%	1	06/09/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	77.2			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	88.3			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	63.4			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	78			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	72			%	2	06/01/22	SC	30 - 150 %	
% TCMX	53			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	56			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.6	3.6	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.6	3.6	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.6	3.6	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	36	36	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.6	3.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.6	3.6	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	36	36	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	53			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	62			%	2	06/01/22	AW	30 - 150 %	
% TCMX	51			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	54			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (14-16`)

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	9.7	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.8	1.9	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.7	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.8	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.7	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.7	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	103			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	89	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	360	720	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	72	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	720	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	92	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	97	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	95	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	92	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (14-16`)

Phoenix I.D.: CL40164

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	88	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	81			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	84			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	78			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	82			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	86			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	72	72	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	75			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	66			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	92			%	1	05/31/22	WB	30 - 130 %

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 (14-16`)

Phoenix I.D.: CL40164

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:50
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40165

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	0.86	0.41	0.41	mg/Kg	1	05/31/22	EK	SW6010D	
Aluminum	11300	41	8.1	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	5.12	0.81	0.81	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	47.8	0.8	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.53	0.33	0.16	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	1040	4.1	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.29	0.41	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	8.21	0.41	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	18.0	0.41	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	14.0	0.8	0.41	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	16500	41	41	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.04	0.03	0.02	mg/Kg	1	05/31/22	IE	SW7471B	
Potassium	993	8	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3120	4.1	4.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	297	4.1	4.1	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	110	8	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	30.9	0.41	0.41	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	20.6	0.8	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	4.1	4.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.6	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.6	1.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	18.0	0.41	0.41	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	25.8	0.41	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	38.5	0.8	0.41	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	89			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	8.00	1.00	1.00	pH Units	1	05/28/22 02:17	MW/JW	SW846 9045D	1
Redox Potential	-8.2			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Phoenix I.D.: CL40165

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.43	0.216	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.278	0.0285	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.278	0.0734	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.278	0.116	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.278	0.116	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.278	0.0570	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.278	0.0549	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.278	0.0520	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.278	0.223	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.278	0.0570	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.278	0.0834	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.278	0.0506	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.278	0.0345	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.278	0.0733	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.278	0.203	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.278	0.0665	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.278	0.0487	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.278	0.0859	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.278	0.102	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.278	0.0831	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.278	0.0484	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.278	0.129	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	69.0			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	69.6			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	87.0			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	73.2			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	53.2			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	87.5			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	89.8			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	69.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	82.1			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	84.2			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	59.1			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	58.8			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	53.4			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	80.2			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	75.6			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Phoenix I.D.: CL40165

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	74.0			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	89.9			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	61.6			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	74	74	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	60			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	57			%	2	05/31/22	SC	30 - 150 %	
% TCMX	55			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	56			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.2	2.2	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.7	3.7	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.7	3.7	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.7	3.7	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	37	37	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.7	3.7	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.7	3.7	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.4	7.4	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	37	37	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	41			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	39			%	2	06/01/22	AW	30 - 150 %	
% TCMX	52			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	44			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Phoenix I.D.: CL40165

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	24	4.7	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	24	4.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	9.4	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.7	1.9	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Phoenix I.D.: CL40165

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND		28	4.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		9.4	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND		4.7	4.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND		4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND		4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND		4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	1.3	J	4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		9.4	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		9.4	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND		4.7	0.94	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND		4.7	0.47	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	95				%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	103				%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	105				%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	99				%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		260	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		260	100	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		260	200	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		260	92	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		260	260	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		260	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		260	260	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		260	230	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		260	150	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Phoenix I.D.: CL40165

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		190	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND		370	740	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		220	74	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND		260	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND		300	170	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND		370	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND		370	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND		260	100	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND		300	300	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND		370	220	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	130	J	190	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	150	J	260	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND		1900	740	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND		260	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND		260	98	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND		260	95	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND		260	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND		260	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	120	J	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND		260	100	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND		260	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND		260	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND		220	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND		260	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (0-2`)

Phoenix I.D.: CL40165

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	260	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	260	91	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	84			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	81			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	86			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	86			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	74	74	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	76			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	60			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	97			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:55
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40166

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	8280	39	7.7	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.65	0.77	0.77	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	28.3	0.8	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.47	0.31	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	589	3.9	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.00	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	9.24	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	21.3	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	12.1	0.8	0.39	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	12600	39	39	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	781	8	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	2680	3.9	3.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	185	3.9	3.9	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	120	8	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	39.6	0.39	0.39	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	6.4	0.8	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.9	3.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	21.3	0.39	0.39	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	20.8	0.39	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	27.9	0.8	0.39	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	91			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.34	1.00	1.00	pH Units	1	05/28/22 02:17	MW/JW	SW846 9045D	1
Redox Potential	-8.9			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (6-8`)

Phoenix I.D.: CL40166

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.55	0.275	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.265	0.0271	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.265	0.0700	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.265	0.110	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.265	0.111	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.265	0.0543	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.265	0.0523	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.265	0.0495	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.265	0.212	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.265	0.0543	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.265	0.0795	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.265	0.0482	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.265	0.0329	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.265	0.0699	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.265	0.194	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.265	0.0634	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	0.672	0.265	0.0464	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.265	0.0819	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.265	0.0974	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.265	0.0792	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.265	0.0461	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.265	0.123	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	54.2			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	53.5			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	57.8			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	78.3			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	47.7			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	84.8			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	82.9			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	73.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	76.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	76.9			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	53.2			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	54.5			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	56.5			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	62.6			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	67.2			%	1	06/09/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	63.9			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	80.5			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	51.1			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	74			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	67			%	2	05/31/22	SC	30 - 150 %	
% TCMX	60			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	63			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	51			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	54			%	2	06/02/22	AW	30 - 150 %	
% TCMX	58			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	65			%	2	06/02/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	21	4.2	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	21	4.2	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	21	4.2	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	8.4	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.2	1.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	25	4.2	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	8.4	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.2	4.2	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	8.4	2.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	8.4	2.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.2	0.84	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.2	0.42	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	102			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	710	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	170	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	92	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	96	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	92	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	99	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	91			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	79			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	82			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	77			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	82			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	85			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	72	72	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	61			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	55			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	89			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	11:00
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40167

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5280	35	7.1	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.69	0.71	0.71	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	28.1	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.44	0.28	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	1050	3.5	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.95	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	12.3	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	31.8	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	16.6	0.7	0.35	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	13600	35	35	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	939	7	2.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3890	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	166	3.5	3.5	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	152	7	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	104	0.35	0.35	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	7.5	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	31.8	0.35	0.35	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	23.7	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	37.1	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.42	0.42	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.34	1.00	1.00	pH Units	1	05/28/22 02:17	MW/JW	SW846 9045D	1
Redox Potential	-33.6			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (14-16`)

Phoenix I.D.: CL40167

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.44	0.222	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.251	0.0257	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.251	0.0664	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.251	0.105	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.251	0.105	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.251	0.0515	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.251	0.0496	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.251	0.0470	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.251	0.201	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.251	0.0515	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.251	0.0754	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.251	0.0458	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.251	0.0312	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.251	0.0663	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.251	0.184	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.251	0.0601	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.84	0.251	0.0440	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.251	0.0776	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.251	0.0924	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.251	0.0751	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.251	0.0437	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.251	0.117	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	60.6			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	79.0			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	90.3			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	87.5			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	52.0			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	89.2			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	81.5			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	76.9			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	82.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	83.2			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	54.3			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	59.8			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	56.5			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	72.5			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	67.4			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	64.4			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	89.6			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	62.0			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	88			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	73			%	2	05/31/22	SC	30 - 150 %	
% TCMX	78			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	84			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	64			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	72			%	2	06/02/22	AW	30 - 150 %	
% TCMX	69			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	78			%	2	06/02/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (14-16`)

Phoenix I.D.: CL40167

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	25	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	25	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	25	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	10	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	5.1	2.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	30	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	5.1	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	102			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (14-16`)

Phoenix I.D.: CL40167

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	700	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	98	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-2 (14-16`)

Phoenix I.D.: CL40167

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	86	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	83			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	66			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	63			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	66			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	80			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	69	69	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	65			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	54			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	83			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:15
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40168

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5640	35	7.0	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.73	0.70	0.70	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	33.0	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.36	0.28	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	6850	3.5	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.93	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	10.5	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	39.1	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	19.0	0.7	0.35	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	12500	35	35	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	1100	7	2.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	5720	35	35	mg/Kg	10	05/31/22	CPP	SW6010D	
Manganese	315	3.5	3.5	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	269	7	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	64.9	0.35	0.35	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	11.8	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	39.1	0.35	0.35	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	21.1	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	37.0	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	93			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.38	0.38	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	8.41	1.00	1.00	pH Units	1	05/28/22 02:17	MW/JW	SW846 9045D	1
Redox Potential	-46.2			mV	1	05/28/22	MW/JW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (0-2`)

Phoenix I.D.: CL40168

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.54	0.269	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.257	0.0263	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.257	0.0677	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.257	0.107	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.257	0.107	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.257	0.0525	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.257	0.0506	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.257	0.0479	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.257	0.205	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.257	0.0525	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.257	0.0770	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.257	0.0467	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.257	0.0318	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.257	0.0676	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.257	0.187	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.257	0.0614	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.257	0.0449	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.257	0.0792	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.257	0.0943	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.257	0.0767	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.257	0.0446	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.257	0.119	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	61.0			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	67.6			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	72.5			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	57.0			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	46.0			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	87.9			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	80.0			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	70.0			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	74.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	77.1			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	52.3			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	58.9			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	49.3			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	65.6			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	71.8			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (0-2`)

Phoenix I.D.: CL40168

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	70.6			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	81.8			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	55.1			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	80			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	78			%	2	05/31/22	SC	30 - 150 %	
% TCMX	79			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	81			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	3.0	3.0	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	55			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	62			%	2	06/02/22	AW	30 - 150 %	
% TCMX	68			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	78			%	2	06/02/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (0-2`)

Phoenix I.D.: CL40168

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND		23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND		23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND		23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND		9.2	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND		4.6	1.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND		4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	1.9	J	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND		4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	12	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	28	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.6	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	5.4	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.2	2.3	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	101			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	105			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	700	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	94	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	93	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	98	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (0-2`)

Phoenix I.D.: CL40168

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	86	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	60			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	51			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	57			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	54			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	55			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	52			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	71	71	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	70			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	50			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	88			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40169

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.31	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5680	31	6.3	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	2.52	0.63	0.63	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	19.2	0.6	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.41	0.25	0.13	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	672	3.1	2.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.86	0.31	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	8.81	0.31	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	19.2	0.31	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	14.7	0.6	0.31	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	11400	31	31	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	668	6	2.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	2430	3.1	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	272	3.1	3.1	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	87	6	2.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	66.5	0.31	0.31	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	5.5	0.6	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.1	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.3	1.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.3	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	19.2	0.31	0.31	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	17.0	0.31	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	23.0	0.6	0.31	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.35	0.35	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.48	1.00	1.00	pH Units	1	05/28/22 02:17	MW/JW	SW846 9045D	1
Redox Potential	-64.1			mV	1	05/28/22	MW/JW	SM2580B-09	1

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Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (6-8`)

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.48	0.242	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.256	0.0262	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.256	0.0677	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.256	0.107	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.256	0.107	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.256	0.0525	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.256	0.0505	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.256	0.0479	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.256	0.205	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.256	0.0525	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.256	0.0769	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.256	0.0466	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.256	0.0318	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.256	0.0675	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.256	0.187	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.256	0.0613	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.256	0.0449	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.256	0.0791	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.256	0.0942	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.256	0.0766	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.256	0.0446	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.256	0.119	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	49.9			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	51.6			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	80.1			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	71.0			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	43.2			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	101			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	90.0			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	72.5			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	83.0			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	84.4			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	54.9			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	56.7			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	52.3			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	74.5			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	57.8			%	1	06/09/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	70.5			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	92.6			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	53.9			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	71	71	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	92			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	87			%	2	05/31/22	SC	30 - 150 %	
% TCMX	75			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	80			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.1	7.1	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	64			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	72			%	2	06/02/22	AW	30 - 150 %	
% TCMX	66			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	77			%	2	06/02/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	27	5.5	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	27	5.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	27	5.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	11	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	5.5	2.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	33	5.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	5.5	5.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	11	2.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	11	2.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.5	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	5.5	0.55	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	94			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	106			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	700	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	99	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (6-8`)

Phoenix I.D.: CL40169

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Pyridine	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	91			%	1	05/31/22	WB	30 - 130 %	
% 2-Fluorobiphenyl	77			%	1	05/31/22	WB	30 - 130 %	
% 2-Fluorophenol	81			%	1	05/31/22	WB	30 - 130 %	
% Nitrobenzene-d5	79			%	1	05/31/22	WB	30 - 130 %	
% Phenol-d5	82			%	1	05/31/22	WB	30 - 130 %	
% Terphenyl-d14	85			%	1	05/31/22	WB	30 - 130 %	
1,4-Dioxane									
1,4-dioxane	ND	70	70	ug/Kg	1	06/01/22	WB	SW8270D (SIM)	
QA/QC Surrogates									
% 2-Fluorobiphenyl	<10			%	1	06/01/22	WB	30 - 130 %	3
% Nitrobenzene-d5	<10			%	1	06/01/22	WB	30 - 130 %	3
% Terphenyl-d14	<10			%	1	06/01/22	WB	30 - 130 %	3

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (6-8`)

Phoenix I.D.: CL40169

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

Semi-Volatile Comment:
Poor surrogate recovery was observed. Sample was re-extracted with similar results.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:30
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40170

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	0.56	0.40	0.40	mg/Kg	1	05/31/22	EK	SW6010D	
Aluminum	15300	40	7.9	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	4.67	0.79	0.79	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	73.8	0.8	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.78	0.32	0.16	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	1610	4.0	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.54	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	8.49	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	21.1	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	15.4	0.8	0.40	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	18100	40	40	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.17	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	822	8	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	2560	4.0	4.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	459	4.0	4.0	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	169	8	3.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	24.5	0.40	0.40	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	24.8	0.8	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	4.0	4.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.6	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.6	1.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	21.1	0.40	0.40	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	30.7	0.40	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	49.9	0.8	0.40	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	84			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.74	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-20.6			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (14-16`)

Phoenix I.D.: CL40170

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.54	0.271	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.301	0.0308	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.301	0.0794	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.301	0.125	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.301	0.126	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.301	0.0616	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.301	0.0593	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.301	0.0562	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.301	0.241	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.301	0.0616	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.301	0.0902	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.301	0.0547	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.301	0.0373	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.301	0.0793	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.301	0.220	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.301	0.0719	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.301	0.0527	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	0.533	0.301	0.0929	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.301	0.111	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.301	0.0899	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.301	0.0523	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.301	0.140	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	60.1			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	50.3			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	77.3			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	62.9			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	61.7			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	82.1			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	81.3			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	68.1			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	71.7			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	78.3			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	46.2			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	53.7			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	43.6			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	64.3			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	51.4			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	79.2			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	85.6			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	58.2			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	79	79	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	70			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	68			%	2	05/31/22	SC	30 - 150 %	
% TCMX	64			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	65			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.4	2.4	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	06/02/22	AW	SW8081B	
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	06/02/22	AW	SW8081B	
a-BHC	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
a-Chlordane	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Alachlor	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Aldrin	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
b-BHC	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Chlordane	ND	39	39	ug/Kg	2	06/02/22	AW	SW8081B	
d-BHC	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Dieldrin	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan I	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan II	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endosulfan sulfate	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin aldehyde	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Endrin ketone	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
g-BHC	ND	1.6	1.6	ug/Kg	2	06/02/22	AW	SW8081B	
g-Chlordane	ND	3.9	3.9	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	7.9	7.9	ug/Kg	2	06/02/22	AW	SW8081B	
Methoxychlor	ND	39	39	ug/Kg	2	06/02/22	AW	SW8081B	
Toxaphene	ND	160	160	ug/Kg	2	06/02/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	49			%	2	06/02/22	AW	30 - 150 %	
% DCBP (Confirmation)	55			%	2	06/02/22	AW	30 - 150 %	
% TCMX	54			%	2	06/02/22	AW	30 - 150 %	
% TCMX (Confirmation)	60			%	2	06/02/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (14-16`)

Phoenix I.D.: CL40170

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	9.2	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.6	1.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	28	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.6	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.2	2.3	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	96			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	103			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	106			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	280	220	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	200	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	280	98	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	200	160	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	280	190	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	280	250	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (14-16`)

Phoenix I.D.: CL40170

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	200	190	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	390	790	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	240	79	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	320	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	390	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	320	320	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	390	230	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	2000	790	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	280	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	200	160	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	280	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	280	100	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	280	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	200	140	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	280	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	280	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	240	150	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	280	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-3 (14-16`)

Phoenix I.D.: CL40170

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	280	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	280	140	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	280	97	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	83			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	81			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	79			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	82			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	79			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	77	77	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	53			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	52			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	95			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:35
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40171

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	13000	35	7.0	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	8.78	0.70	0.70	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	76.6	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.63	0.28	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	7090	3.5	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.59	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	8.81	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	21.2	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	51.9	0.7	0.35	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	18600	35	35	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.52	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	933	7	2.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	5190	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	261	3.5	3.5	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	184	7	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	28.1	0.35	0.35	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	67.5	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	21.2	0.35	0.35	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	33.2	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	80.5	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	87			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.45	0.45	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	8.00	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-56.0			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (0-2`)

Phoenix I.D.: CL40171

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.57	0.287	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					05/27/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.290	0.0297	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.290	0.0764	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.290	0.121	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.290	0.121	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.290	0.0593	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.290	0.0571	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.290	0.0541	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.290	0.232	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.290	0.0593	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.290	0.0869	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.290	0.0527	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.290	0.0359	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.290	0.0763	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.290	0.212	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.290	0.0693	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.290	0.0507	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	0.443	0.290	0.0894	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.290	0.106	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.290	0.0865	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.290	0.0504	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.290	0.135	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	57.6			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	66.3			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	87.1			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	62.2			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	58.9			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	83.1			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	72.0			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	72.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	79.1			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	80.0			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	60.2			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	56.6			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	47.0			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	69.5			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	74.6			%	1	06/09/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	71.4			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	84.5			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	54.1			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1221	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1232	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1242	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1248	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1254	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1260	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1262	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
PCB-1268	ND	76	76	ug/Kg	2	05/31/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	45			%	2	05/31/22	SC	30 - 150 %	
% DCBP (Confirmation)	42			%	2	05/31/22	SC	30 - 150 %	
% TCMX	46			%	2	05/31/22	SC	30 - 150 %	
% TCMX (Confirmation)	46			%	2	05/31/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	30			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	28			%	2	06/01/22	AW	30 - 150 %	3
% TCMX	42			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	41			%	2	06/01/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	23	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	9.2	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.6	1.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	

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m&p-Xylene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	28	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.6	4.6	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.2	2.3	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	95			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	101			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	104			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	270	94	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	270	240	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND		380	760	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		230	76	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND		300	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND		380	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND		380	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND		300	300	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	210	J	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND		380	220	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	280		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	350		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	220	J	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	250	J	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND		1900	760	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND		270	98	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		270	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	300		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND		270	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND		270	98	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	310		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	270		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND		230	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (0-2`)

Phoenix I.D.: CL40171

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	300	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	270	94	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	84			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	78			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	78			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	81			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	80			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	75	75	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	68			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	41			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	92			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:40
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40172

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.32	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5730	32	6.5	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	2.15	0.65	0.65	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	26.6	0.6	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.44	0.26	0.13	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	841	3.2	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.11	0.32	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	11.7	0.32	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	40.7	0.32	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	18.3	0.6	0.32	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	15800	32	32	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	556	6	2.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3570	3.2	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	296	3.2	3.2	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	110	6	2.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	73.1	0.32	0.32	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	4.5	0.6	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.2	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.3	1.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.3	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	40.7	0.32	0.32	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	23.7	0.32	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	25.9	0.6	0.32	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.48	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-47.6			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Phoenix I.D.: CL40172

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.53	0.266	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.249	0.0255	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.249	0.0656	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.249	0.104	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.249	0.104	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.249	0.0509	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.249	0.0490	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.249	0.0464	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.249	0.199	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.249	0.0509	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.249	0.0746	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.249	0.0453	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.249	0.0308	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.249	0.0655	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.249	0.182	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.249	0.0595	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.249	0.0436	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.249	0.0768	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.249	0.0914	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.249	0.0743	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.249	0.0433	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.249	0.116	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	58.0			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	55.5			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	72.4			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	75.9			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	48.5			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	95.0			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	92.5			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	81.9			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	82.7			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	87.7			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	61.3			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	60.4			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	48.8			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	69.6			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	66.3			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	70.5			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Phoenix I.D.: CL40172

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	89.3			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	53.6			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	87			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	83			%	2	06/01/22	SC	30 - 150 %	
% TCMX	57			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	62			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	66			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	71			%	2	06/01/22	AW	30 - 150 %	
% TCMX	59			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	62			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Phoenix I.D.: CL40172

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	25	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	25	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	25	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	10	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	5.1	2.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Phoenix I.D.: CL40172

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	30	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	5.1	5.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.1	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	5.1	0.51	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	96			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	103			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Phoenix I.D.: CL40172

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	710	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	99	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (6-8`)

Phoenix I.D.: CL40172

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	87			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	83			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	79			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	81			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	82			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	71	71	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	62			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	59			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	90			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:45
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40173

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	6200	35	7.0	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.88	0.70	0.70	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	36.7	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.42	0.28	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	998	3.5	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.11	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	14.0	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	30.4	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	15.3	0.7	0.35	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	15800	35	35	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	833	7	2.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3990	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	394	3.5	3.5	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	145	7	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	95.7	0.35	0.35	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	6.4	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.5	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	30.4	0.35	0.35	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	23.6	0.35	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	43.1	0.7	0.35	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.42	0.42	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.81	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-55.4			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (14-16`)

Phoenix I.D.: CL40173

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.48	0.242	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.258	0.0264	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.258	0.0681	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.258	0.107	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.258	0.108	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.258	0.0528	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.258	0.0508	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.258	0.0482	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.258	0.206	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.258	0.0528	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.258	0.0773	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.258	0.0469	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.258	0.0320	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.258	0.0680	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.258	0.188	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.258	0.0617	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.258	0.0452	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.258	0.0796	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.258	0.0948	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.258	0.0770	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.258	0.0449	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.258	0.120	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	61.5			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	60.2			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	81.7			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	62.3			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	50.8			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	95.1			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	80.4			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	72.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	78.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	80.9			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	63.3			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	56.5			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	50.1			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	71.5			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	73.7			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	78.4			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (14-16`)

Phoenix I.D.: CL40173

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	89.6			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	49.5			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	71	71	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	79			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	76			%	2	06/01/22	SC	30 - 150 %	
% TCMX	48			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	60			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.1	7.1	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	54			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	61			%	2	06/01/22	AW	30 - 150 %	
% TCMX	49			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	51			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-4 (14-16`)

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND		15	3.0	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND		15	3.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	11	JS	15	3.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND		6.1	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND		3.0	1.2	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	3.9	J	18	3.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		6.1	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND		3.0	3.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		6.1	1.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		6.1	1.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND		3.0	0.61	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND		3.0	0.30	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	94				%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102				%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	102				%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	101				%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		250	98	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		250	88	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	710	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	99	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	82			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	77			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	80			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	81			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	81			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	84			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	70	70	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	56			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	44			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	97			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 14, 2022

Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	9:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40174

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	12200	36	7.2	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	7.18	0.72	0.72	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	248	0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.62	0.29	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	12800	36	33	mg/Kg	10	05/31/22	CPP	SW6010D	
Cadmium	2.39	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	8.82	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	27.3	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	54.8	0.7	0.36	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	16700	36	36	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.10	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	917	7	2.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	6600	36	36	mg/Kg	10	05/31/22	CPP	SW6010D	
Manganese	260	3.6	3.6	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	294	7	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	37.9	0.36	0.36	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	309	0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.6	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	27.3	0.36	0.36	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	34.8	0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	309	0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	87			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	8.09	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-31.5			mV	1	05/28/22	MW	SM2580B-09	1

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Client ID: SB-5 (0-2`)

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	0.19	J	0.34	0.169	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed						05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed						05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed						05/31/22	O/L	SW3545A	
Field Extraction	Completed						05/26/22		SW5035A	1
Mercury Digestion	Completed						05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed						05/27/22	I/L	SW3546	
Total Metals Digest	Completed						05/27/22	M/AG	SW3050B	
PFAS (21)	Completed						06/07/22	***	EPA 537m	C
PFAS (21)										
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND		0.299	0.0307	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND		0.299	0.0790	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND		0.299	0.125	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND		0.299	0.125	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.299	0.0613	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.299	0.0590	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		0.299	0.0559	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND		0.299	0.239	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND		0.299	0.0613	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND		0.299	0.0898	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	0.305		0.299	0.0545	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND		0.299	0.0371	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND		0.299	0.0789	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND		0.299	0.219	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND		0.299	0.0716	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND		0.299	0.0524	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND		0.299	0.0924	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND		0.299	0.110	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND		0.299	0.0894	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND		0.299	0.0521	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND		0.299	0.139	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates										
% d3-N-MeFOSAA	49.6				%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	62.9				%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	104				%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	75.2				%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	59.9				%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	85.2				%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	74.1				%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	65.8				%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	71.6				%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	73.6				%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	48.1				%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	52.3				%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	47.3				%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	70.9				%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	64.4				%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	74.9				%	1	06/09/22	***	25 - 150 %	C

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% MPFBA	77.9			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	52.8			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	59			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	50			%	2	06/01/22	SC	30 - 150 %	
% TCMX	48			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	48			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	45			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	35			%	2	06/01/22	AW	30 - 150 %	
% TCMX	49			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	47			%	2	06/01/22	AW	30 - 150 %	

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Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	27	5.5	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	27	5.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	27	5.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	11	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	5.5	2.2	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	

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m&p-Xylene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	33	5.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	5.5	5.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	11	2.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	11	2.7	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.5	1.1	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	5.5	0.55	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	94			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	101			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	102			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	270	240	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (0-2`)

Phoenix I.D.: CL40174

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND		380	760	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		230	76	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND		310	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND		380	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND		380	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND		310	310	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	230	J	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND		380	220	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	270		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	300		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	240	J	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	250	J	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND		1900	760	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND		270	99	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	250	J	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND		270	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND		270	99	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	330		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	300		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND		230	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (0-2`)

Phoenix I.D.: CL40174

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	320	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	270	94	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	86			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	86			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	87			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	85			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	84			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	760	760	ug/Kg	10	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl (10x)	Diluted Out			%	10	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out			%	10	05/31/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out			%	10	05/31/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	9:30
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40175

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	0.41	0.38	0.38	mg/Kg	1	05/31/22	EK	SW6010D	
Aluminum	5440	38	7.5	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.48	0.75	0.75	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	22.9	0.8	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.40	0.30	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	2190	3.8	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.75	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	7.87	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	16.7	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	12.6	0.8	0.38	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	9780	38	38	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	888	8	2.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	2450	3.8	3.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	219	3.8	3.8	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	93	8	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	60.3	0.38	0.38	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	3.4	0.8	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.8	3.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	16.7	0.38	0.38	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	15.0	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	24.3	0.8	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	95			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.36	0.36	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.87	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-57.2			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Phoenix I.D.: CL40175

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.44	0.219	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					06/02/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					06/02/22	O/MO	SW3545A	
Soil Extraction for Pesticides	Completed					06/02/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/L	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.261	0.0267	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.261	0.0689	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.261	0.109	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.261	0.109	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.261	0.0534	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.261	0.0515	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.261	0.0487	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.261	0.209	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.261	0.0534	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.261	0.0783	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.261	0.0475	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.261	0.0324	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.261	0.0688	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.261	0.191	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.261	0.0624	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.261	0.0457	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.261	0.0806	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.261	0.0959	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.261	0.0780	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.261	0.0454	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.261	0.121	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	55.3			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	62.8			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	90.1			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	63.1			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	34.9			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	90.7			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	91.0			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	67.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	80.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	80.7			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	56.6			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	58.6			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	52.7			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	66.3			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	68.3			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Phoenix I.D.: CL40175

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	76.7			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	84.9			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	51.4			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/03/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	83			%	2	06/03/22	SC	30 - 150 %	
% DCBP (Confirmation)	79			%	2	06/03/22	SC	30 - 150 %	
% TCMX	73			%	2	06/03/22	SC	30 - 150 %	
% TCMX (Confirmation)	75			%	2	06/03/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/04/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/04/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/04/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/04/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	56			%	2	06/04/22	AW	30 - 150 %	
% DCBP (Confirmation)	74			%	2	06/04/22	AW	30 - 150 %	
% TCMX	69			%	2	06/04/22	AW	30 - 150 %	
% TCMX (Confirmation)	73			%	2	06/04/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Phoenix I.D.: CL40175

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	25	5.0	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	25	5.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	10	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	5.0	2.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Phoenix I.D.: CL40175

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	5.0	5.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	96			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	101			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	85	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Phoenix I.D.: CL40175

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND		340	690	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		210	69	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND		280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND		340	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND		340	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND		240	96	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND		280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	150	J	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND		340	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	110	J	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND		1700	690	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND		240	89	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		240	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND		170	93	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		240	99	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND		170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	140	J	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND		240	92	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND		240	89	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	370		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND		170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND		170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND		170	96	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND		240	99	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND		170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND		240	97	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND		240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND		240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND		210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	220	J	240	98	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (6-8`)

Phoenix I.D.: CL40175

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	280	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	85	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	70			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	67			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	66			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	70			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	88			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	69	69	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	64			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	56			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	95			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	9:40
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40176

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5050	33	6.7	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.52	0.67	0.67	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	51.0	0.7	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.32	0.27	0.13	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	1350	3.3	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.77	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	8.60	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	15.6	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	25.4	0.7	0.33	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	11100	33	33	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	1050	7	2.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3120	3.3	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	300	3.3	3.3	mg/Kg	10	05/31/22	TH	SW6010D	
Sodium	170	7	2.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	70.0	0.33	0.33	mg/Kg	1	05/31/22	TH	SW6010D	
Lead	7.9	0.7	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.3	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.3	1.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.3	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	15.6	0.33	0.33	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	18.0	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	26.5	0.7	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	95			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.34	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-44.1			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (14-16`)

Phoenix I.D.: CL40176

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.48	0.239	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.245	0.0251	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.245	0.0646	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.245	0.102	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.245	0.102	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.245	0.0501	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.245	0.0483	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.245	0.0457	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.245	0.196	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.245	0.0501	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.245	0.0734	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.245	0.0445	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.245	0.0303	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.245	0.0645	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.245	0.179	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.245	0.0585	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.245	0.0429	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.245	0.0756	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.245	0.0899	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.245	0.0731	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.245	0.0426	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.245	0.114	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	62.3			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	60.2			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	81.8			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	78.5			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	67.6			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	97.4			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	80.2			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	76.4			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	75.1			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	79.7			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	60.8			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	61.7			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	52.9			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	68.5			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	78.5			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	72.7			%	1	06/09/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	84.7			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	56.3			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	69	69	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	80			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	73			%	2	06/01/22	SC	30 - 150 %	
% TCMX	50			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	52			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	34	34	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	6.9	6.9	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	34	34	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	55			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	61			%	2	06/01/22	AW	30 - 150 %	
% TCMX	49			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	53			%	2	06/01/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	21	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	21	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	21	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	8.5	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.3	1.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	26	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	8.5	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	4.3	4.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	8.5	2.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	8.5	2.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.3	0.85	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	4.3	0.43	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	105			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	98	ug/Kg	1	05/30/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	96	ug/Kg	1	05/30/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/30/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	86	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/30/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/30/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	98	ug/Kg	1	05/30/22	WB	SW8270D	
2-Chlorophenol	ND	240	98	ug/Kg	1	05/30/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/30/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/30/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/30/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/30/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/30/22	WB	SW8270D
3-Nitroaniline	ND	350	690	ug/Kg	1	05/30/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	69	ug/Kg	1	05/30/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/30/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/30/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/30/22	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Acenaphthylene	ND	240	97	ug/Kg	1	05/30/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/30/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D
Benzidine	ND	350	200	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Benzoic acid	ND	1700	690	ug/Kg	1	05/30/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	89	ug/Kg	1	05/30/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	05/30/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	93	ug/Kg	1	05/30/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/30/22	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/30/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Di-n-butylphthalate	ND	240	92	ug/Kg	1	05/30/22	WB	SW8270D
Di-n-octylphthalate	ND	240	89	ug/Kg	1	05/30/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/30/22	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	05/30/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/30/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Isophorone	ND	170	97	ug/Kg	1	05/30/22	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	05/30/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/30/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	98	ug/Kg	1	05/30/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/30/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/30/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/30/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/30/22	WB	SW8270D
Phenanthrene	ND	240	99	ug/Kg	1	05/30/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-5 (14-16`)

Phoenix I.D.: CL40176

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/30/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/30/22	WB	SW8270D
Pyridine	ND	240	85	ug/Kg	1	05/30/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	93			%	1	05/30/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76			%	1	05/30/22	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	05/30/22	WB	30 - 130 %
% Nitrobenzene-d5	68			%	1	05/30/22	WB	30 - 130 %
% Phenol-d5	71			%	1	05/30/22	WB	30 - 130 %
% Terphenyl-d14	76			%	1	05/30/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	70	70	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	48			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	48			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	81			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:10
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40177

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.37	0.37	mg/Kg	1	06/02/22	EK	SW6010D	
Aluminum	5700	37	7.5	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	2.89	0.75	0.75	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	82.8	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.36	0.30	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	6050	3.7	3.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.56	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	7.99	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	19.9	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	20.6	0.7	0.37	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	10800	37	37	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.12	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	547	7	2.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	4810	3.7	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	235	3.7	3.7	mg/Kg	10	05/31/22	CPP	SW6010D	
Sodium	73	7	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	35.4	0.37	0.37	mg/Kg	1	06/02/22	EK	SW6010D	
Lead	181	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.7	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	19.9	0.37	0.37	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	23.2	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	198	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	86			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.40	0.40	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	8.06	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	7.0			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (0-2`)

Phoenix I.D.: CL40177

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	0.59	0.42	0.208	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.257	0.0263	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.257	0.0678	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.257	0.107	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.257	0.107	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.257	0.0526	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.257	0.0506	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.257	0.0480	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.257	0.205	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.257	0.0526	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.257	0.0770	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.257	0.0467	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.257	0.0318	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.257	0.0677	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.257	0.188	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.257	0.0614	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.257	0.0450	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.257	0.0793	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.257	0.0944	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.257	0.0767	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.257	0.0447	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.257	0.119	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	78.2			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	68.7			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	71.2			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	88.9			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	71.0			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	98.1			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	90.7			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	74.0			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	81.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	82.2			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	61.9			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	62.6			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	66.1			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	77.9			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	78.6			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	81.3			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (0-2`)

Phoenix I.D.: CL40177

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	87.8			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	61.4			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	85			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	79			%	2	06/01/22	SC	30 - 150 %	
% TCMX	62			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	70			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	6.3	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	64			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	70			%	2	06/01/22	AW	30 - 150 %	
% TCMX	60			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	63			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (0-2`)

Phoenix I.D.: CL40177

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	9.7	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.8	1.9	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (0-2`)

Phoenix I.D.: CL40177

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND		29	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		9.7	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND		4.8	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND		4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND		4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND		4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	1.0	J	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		9.7	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		9.7	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND		4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND		4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	96				%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102				%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	105				%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100				%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		190	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		270	95	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		270	240	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (0-2`)

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND		380	770	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		230	77	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND		310	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND		380	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND		380	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND		310	310	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND		380	230	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND		1900	770	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND		270	99	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND		270	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND		270	99	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	140	J	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND		230	150	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	130	J	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND		270	94	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates									
% 2,4,6-Tribromophenol	82				%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	82				%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	59				%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	69				%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	71				%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	66				%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane									
1,4-dioxane	ND		77	77	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates									
% 2-Fluorobiphenyl	70				%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	57				%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	96				%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:15
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40178

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	6210	37	7.3	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.45	0.73	0.73	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	25.6	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.43	0.29	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	797	3.7	3.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.88	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	9.60	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	18.0	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	15.1	0.7	0.37	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	11500	37	37	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	720	7	2.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3010	3.7	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	278	3.7	3.7	mg/Kg	10	05/31/22	CPP	SW6010D	
Sodium	75	7	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	57.3	0.37	0.37	mg/Kg	1	06/02/22	EK	SW6010D	
Lead	4.1	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.7	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	18.0	0.37	0.37	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	18.3	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	30.4	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	95			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.38	0.38	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.92	1.00	1.00	pH Units	1	05/28/22 02:17	MW	SW846 9045D	1
Redox Potential	-31.2			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (6-8`)

Phoenix I.D.: CL40178

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.44	0.219	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.262	0.0268	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.262	0.0690	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.262	0.109	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.262	0.109	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.262	0.0536	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.262	0.0516	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.262	0.0489	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.262	0.209	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.262	0.0536	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.262	0.0785	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.262	0.0476	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.262	0.0324	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.262	0.0689	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.262	0.191	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.262	0.0626	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.262	0.0458	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.262	0.0808	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.262	0.0961	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.262	0.0781	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.262	0.0455	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.262	0.122	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	51.0			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	52.9			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	84.7			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	50.0			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	36.4			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	87.5			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	70.7			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	70.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	72.1			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	77.2			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	46.0			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	52.8			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	46.5			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	62.4			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	57.3			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	55.3			%	1	06/09/22	***	25 - 150 %	C

Ver 1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	81.3			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	50.1			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	78			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	72			%	2	06/01/22	SC	30 - 150 %	
% TCMX	59			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	60			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	34	34	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	34	34	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	62			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	72			%	2	06/01/22	AW	30 - 150 %	
% TCMX	58			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	64			%	2	06/01/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Hexanone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Acetone	ND	24	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Acrylonitrile	ND	9.7	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Benzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromochloromethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromodichloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromoform	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Bromomethane	ND	4.8	1.9	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon Disulfide	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Chlorobenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloroform	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Chloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromochloromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Dibromomethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Ethylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Isopropylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.7	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Methylene chloride	ND	4.8	4.8	ug/Kg	1	05/29/22	JLI	SW8260C	
Naphthalene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
n-Propylbenzene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
o-Xylene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Styrene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrachloroethene	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.7	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Toluene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.7	2.4	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichloroethene	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.8	0.97	ug/Kg	1	05/29/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
Vinyl chloride	ND	4.8	0.48	ug/Kg	1	05/29/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	94			%	1	05/29/22	JLI	70 - 130 %	
% Bromofluorobenzene	102			%	1	05/29/22	JLI	70 - 130 %	
% Dibromofluoromethane	102			%	1	05/29/22	JLI	70 - 130 %	
% Toluene-d8	100			%	1	05/29/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	86	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	700	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	94	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	92	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	97	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	86	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	69			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	58			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	64			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	67			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	65			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	70	70	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	65			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	56			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	96			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40179

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	5290	38	7.6	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	2.72	0.76	0.76	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	33.8	0.8	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.53	0.30	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	2340	3.8	3.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	1.05	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	11.6	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	19.8	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	16.4	0.8	0.38	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	14300	38	38	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	05/31/22	IE	SW7471B	
Potassium	932	8	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	4650	3.8	3.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	330	3.8	3.8	mg/Kg	10	05/31/22	CPP	SW6010D	
Sodium	140	8	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	109	0.38	0.38	mg/Kg	1	06/02/22	EK	SW6010D	
Lead	6.9	0.8	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.8	3.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	19.8	0.38	0.38	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	19.6	0.38	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	43.0	0.8	0.38	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.38	0.38	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	8.07	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-39.7			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Phoenix I.D.: CL40179

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.48	0.242	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					05/31/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.253	0.0259	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.253	0.0667	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.253	0.105	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.253	0.105	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.253	0.0517	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.253	0.0498	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.253	0.0472	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.253	0.202	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.253	0.0517	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.253	0.0758	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.253	0.0460	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.253	0.0313	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.253	0.0666	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.253	0.185	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.253	0.0604	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.253	0.0443	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.253	0.0780	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.253	0.0929	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.253	0.0755	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.253	0.0440	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.253	0.118	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	68.1			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	69.5			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	85.0			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	78.9			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	47.2			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	109			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	86.1			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	76.1			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	87.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	89.5			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	65.7			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	69.7			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	58.2			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	80.8			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	84.8			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	89.1			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Phoenix I.D.: CL40179

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	94.4			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	59.5			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	78			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	78			%	2	06/02/22	SC	30 - 150 %	
% TCMX	58			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	62			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/04/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/04/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/04/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/04/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/04/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	76			%	2	06/04/22	AW	30 - 150 %	
% DCBP (Confirmation)	67			%	2	06/04/22	AW	30 - 150 %	
% TCMX	54			%	2	06/04/22	AW	30 - 150 %	
% TCMX (Confirmation)	63			%	2	06/04/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Phoenix I.D.: CL40179

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
2-Hexanone	ND	24	4.9	ug/Kg	1	06/01/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.9	ug/Kg	1	06/01/22	JLI	SW8260C	
Acetone	ND	24	4.9	ug/Kg	1	06/01/22	JLI	SW8260C	
Acrylonitrile	ND	9.8	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Benzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromobenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromochloromethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromodichloromethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromoform	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromomethane	ND	4.9	2.0	ug/Kg	1	06/01/22	JLI	SW8260C	
Carbon Disulfide	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Chlorobenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Chloroethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Chloroform	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Chloromethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Dibromochloromethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Dibromomethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Ethylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Isopropylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Phoenix I.D.: CL40179

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.9	ug/Kg	1	06/01/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.8	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Methylene chloride	ND	4.9	4.9	ug/Kg	1	06/01/22	JLI	SW8260C	
Naphthalene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
n-Butylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
n-Propylbenzene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
o-Xylene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Styrene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Tetrachloroethene	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.8	2.4	ug/Kg	1	06/01/22	JLI	SW8260C	
Toluene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.8	2.4	ug/Kg	1	06/01/22	JLI	SW8260C	
Trichloroethene	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.9	0.98	ug/Kg	1	06/01/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
Vinyl chloride	ND	4.9	0.49	ug/Kg	1	06/01/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	103			%	1	06/01/22	JLI	70 - 130 %	
% Bromofluorobenzene	92			%	1	06/01/22	JLI	70 - 130 %	
% Dibromofluoromethane	102			%	1	06/01/22	JLI	70 - 130 %	
% Toluene-d8	98			%	1	06/01/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Phoenix I.D.: CL40179

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	700	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	98	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 (14-16`)

Phoenix I.D.: CL40179

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	86	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	74			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	68			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	56			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	61			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	64			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	62			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	69	69	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	61			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	56			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	101			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	14:16
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40180

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	14100	37	7.4	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	8.21	0.74	0.74	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	96.9	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.70	0.29	0.15	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	7800	3.7	3.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	2.72	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	10.7	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	26.5	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	35.5	0.7	0.37	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	22600	37	37	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	0.11	0.03	0.02	mg/Kg	1	06/01/22	IE	SW7471B	
Potassium	953	7	2.9	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	3970	3.7	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	337	3.7	3.7	mg/Kg	10	05/31/22	CPP	SW6010D	
Sodium	235	7	3.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	36.7	0.37	0.37	mg/Kg	1	06/02/22	EK	SW6010D	
Lead	152	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.7	3.7	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	26.5	0.37	0.37	mg/kg	1	06/01/22		CALC 6010-7196	
Vanadium	35.4	0.37	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	272	0.7	0.37	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	87			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.42	0.42	mg/Kg	1	06/01/22	MCH	SW7196A	
pH at 25C - Soil	7.96	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-139			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.48	0.239	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	KL/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.282	0.0289	ng/g	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.282	0.0745	ng/g	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	0.282	0.118	ng/g	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	0.282	0.118	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.282	0.0578	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.282	0.0556	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.282	0.0527	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.282	0.226	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.282	0.0578	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.282	0.0847	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.282	0.0514	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.282	0.0350	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.282	0.0744	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	0.282	0.206	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.282	0.0675	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.282	0.0494	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.282	0.0871	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.282	0.104	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.282	0.0843	ng/g	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.282	0.0491	ng/g	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.282	0.131	ng/g	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	54.9			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	57.6			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	113			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	86.8			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	37.4			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	84.8			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	76.9			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	69.9			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	72.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	74.9			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	50.0			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	49.8			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	32.4			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	65.0			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	70.0			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	64.1			%	1	06/09/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	79.4			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	49.2			%	1	06/09/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	77	77	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	79			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	70			%	2	06/02/22	SC	30 - 150 %	
% TCMX	67			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	67			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	06/04/22	AW	SW8081B	
a-BHC	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
a-Chlordane	ND	3.8	3.8	ug/Kg	2	06/04/22	AW	SW8081B	
Alachlor	ND	3.8	3.8	ug/Kg	2	06/04/22	AW	SW8081B	
Aldrin	ND	3.8	3.8	ug/Kg	2	06/04/22	AW	SW8081B	
b-BHC	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Chlordane	ND	38	38	ug/Kg	2	06/04/22	AW	SW8081B	
d-BHC	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Dieldrin	ND	3.8	3.8	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan I	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan II	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan sulfate	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin aldehyde	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin ketone	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/04/22	AW	SW8081B	
g-Chlordane	ND	3.8	3.8	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor epoxide	ND	7.7	7.7	ug/Kg	2	06/04/22	AW	SW8081B	
Methoxychlor	ND	38	38	ug/Kg	2	06/04/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/04/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	47			%	2	06/04/22	AW	30 - 150 %	
% DCBP (Confirmation)	52			%	2	06/04/22	AW	30 - 150 %	
% TCMX	63			%	2	06/04/22	AW	30 - 150 %	
% TCMX (Confirmation)	67			%	2	06/04/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND		25	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND		25	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	49	S	25	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND		9.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND		4.9	2.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	1.2	J	4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	9.2	J	30	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		9.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND		4.9	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		9.9	2.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		9.9	2.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND		4.9	0.99	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND		4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	95				%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	93				%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	93				%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		270	95	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	120	J	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		270	240	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND		380	760	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND		230	76	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND		300	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND		380	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND		380	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	130	J	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND		300	300	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	280		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND		380	220	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	370		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	410		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	280		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	370		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND		1900	760	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND		270	98	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	380		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND		270	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND		270	98	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	410		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	300		270	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND		230	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	140	J	270	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	400	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	270	94	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	87			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	66			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	73			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	75			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	67			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	760	760	ug/Kg	10	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl (10x)	Diluted Out			%	10	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out			%	10	05/31/22	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out			%	10	05/31/22	WB	30 - 130 %

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (0-2`)

Phoenix I.D.: CL40180

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	14:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40181

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	4930	33	6.5	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.49	0.65	0.65	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	21.4	0.7	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.34	0.26	0.13	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	729	3.3	3.0	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.93	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	11.0	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	18.3	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	15.4	0.7	0.33	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	13100	33	33	mg/Kg	10	05/31/22	CPP	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	1	06/01/22	IE	SW7471B	
Potassium	668	7	2.5	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	2460	3.3	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	286	3.3	3.3	mg/Kg	10	05/31/22	CPP	SW6010D	
Sodium	91	7	2.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	59.5	0.33	0.33	mg/Kg	1	06/02/22	EK	SW6010D	
Lead	11.0	0.7	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND	3.3	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND	1.3	1.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND	1.3	1.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	18.3	0.33	0.33	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	24.5	0.33	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	25.1	0.7	0.33	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	96			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.37	0.37	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.76	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-72.9			mV	1	05/28/22	MW	SM2580B-09	1

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Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (6-8`)

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.52	0.260	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/27/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	KL/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.253	0.0259	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.253	0.0668	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.253	0.105	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.253	0.106	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.253	0.0518	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.253	0.0499	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.253	0.0473	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.253	0.202	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.253	0.0518	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.253	0.0759	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.253	0.0461	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.253	0.0314	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.253	0.0667	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.253	0.185	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.253	0.0605	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.253	0.0443	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.253	0.0782	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.253	0.0930	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.253	0.0756	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.253	0.0440	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.253	0.118	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	47.0			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	52.1			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	77.7			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	67.4			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	41.9			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	89.9			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	83.4			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	72.1			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	76.8			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	77.1			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	62.2			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	53.7			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	41.3			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	71.9			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	62.8			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	77.3			%	1	06/10/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	80.2			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	49.4			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	71			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	68			%	2	06/02/22	SC	30 - 150 %	
% TCMX	56			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	59			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/04/22	AW	SW8081B	
a-BHC	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
a-Chlordane	ND	3.4	3.4	ug/Kg	2	06/04/22	AW	SW8081B	
Alachlor	ND	3.4	3.4	ug/Kg	2	06/04/22	AW	SW8081B	
Aldrin	ND	3.4	3.4	ug/Kg	2	06/04/22	AW	SW8081B	
b-BHC	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Chlordane	ND	34	34	ug/Kg	2	06/04/22	AW	SW8081B	
d-BHC	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Dieldrin	ND	3.4	3.4	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan I	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan II	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan sulfate	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin aldehyde	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin ketone	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/04/22	AW	SW8081B	
g-Chlordane	ND	3.4	3.4	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor epoxide	ND	6.9	6.9	ug/Kg	2	06/04/22	AW	SW8081B	
Methoxychlor	ND	34	34	ug/Kg	2	06/04/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/04/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	67			%	2	06/04/22	AW	30 - 150 %	
% DCBP (Confirmation)	58			%	2	06/04/22	AW	30 - 150 %	
% TCMX	55			%	2	06/04/22	AW	30 - 150 %	
% TCMX (Confirmation)	55			%	2	06/04/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	24	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	24	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	9.5	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.7	1.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	0.96	J	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND		28	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		9.5	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND		4.7	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		9.5	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	0.79	J	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		9.5	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93				%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	90				%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	94				%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		240	95	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		240	93	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		240	180	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		240	83	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		170	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		240	95	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		240	95	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		240	210	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		240	130	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (6-8`)

Phoenix I.D.: CL40181

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	340	670	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	200	67	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	94	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	670	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	87	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	93	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	91	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	130	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	89	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	87	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	98	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	94	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	95	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (6-8`)

Phoenix I.D.: CL40181

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	83	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	64			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	43			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	53			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	55			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	71			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	68	68	ug/Kg	1	05/31/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	53			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	47			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	95			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

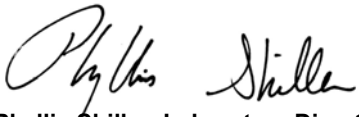
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	14:25
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40182

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.30	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	3180	30	6.1	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.37	0.61	0.61	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	23.2	0.6	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.25	0.24	0.12	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	1180	3.0	2.8	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	0.65	0.30	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	6.68	0.30	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	10.6	0.30	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	9.0	0.6	0.30	mg/kg	1	06/01/22	EK	SW6010D	
Iron	9580	30	30	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	1	06/01/22	IE	SW7471B	
Potassium	625	6	2.4	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	3860	3.0	3.0	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	247	3.0	3.0	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	129	6	2.6	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	59.3	0.30	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	3.8	0.6	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.0	3.0	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.2	1.0	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.2	1.2	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	10.6	0.30	0.30	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	12.2	0.30	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	17.8	0.6	0.30	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	97			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.37	0.37	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	8.07	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-84.2			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (14-16`)

Phoenix I.D.: CL40182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.52	0.258	mg/Kg	1	06/01/22	BJA/GD	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	KL/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.248	0.0254	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.248	0.0655	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.248	0.103	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.248	0.104	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.248	0.0508	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.248	0.0489	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.248	0.0463	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.248	0.198	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.248	0.0508	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.248	0.0744	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.248	0.0451	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.248	0.0307	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.248	0.0654	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.248	0.181	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.248	0.0593	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.248	0.0434	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.248	0.0766	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.248	0.0912	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.248	0.0741	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.248	0.0431	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.248	0.115	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	54.6			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	58.0			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	71.3			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	75.7			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	58.7			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	81.5			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	75.5			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	67.6			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	71.0			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	73.7			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	54.5			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	57.6			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	47.9			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	64.8			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	59.4			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	66.0			%	1	06/10/22	***	25 - 150 %	C

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	75.8			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	50.2			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	67	67	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	69			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	59			%	2	06/02/22	SC	30 - 150 %	
% TCMX	46			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	48			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.0	2.0	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDE	ND	2.0	2.0	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDT	ND	2.0	2.0	ug/Kg	2	06/03/22	AW	SW8081B	
a-BHC	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
a-Chlordane	ND	3.4	3.4	ug/Kg	2	06/03/22	AW	SW8081B	
Alachlor	ND	3.4	3.4	ug/Kg	2	06/03/22	AW	SW8081B	
Aldrin	ND	3.4	3.4	ug/Kg	2	06/03/22	AW	SW8081B	
b-BHC	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Chlordane	ND	34	34	ug/Kg	2	06/03/22	AW	SW8081B	
d-BHC	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Dieldrin	ND	3.4	3.4	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan I	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan II	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan sulfate	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin aldehyde	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin ketone	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
g-BHC	ND	1.3	1.3	ug/Kg	2	06/03/22	AW	SW8081B	
g-Chlordane	ND	3.4	3.4	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor epoxide	ND	6.7	6.7	ug/Kg	2	06/03/22	AW	SW8081B	
Methoxychlor	ND	34	34	ug/Kg	2	06/03/22	AW	SW8081B	
Toxaphene	ND	130	130	ug/Kg	2	06/03/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	56			%	2	06/03/22	AW	30 - 150 %	
% DCBP (Confirmation)	47			%	2	06/03/22	AW	30 - 150 %	
% TCMX	49			%	2	06/03/22	AW	30 - 150 %	
% TCMX (Confirmation)	43			%	2	06/03/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (14-16`)

Phoenix I.D.: CL40182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	24	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	24	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	9.5	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.7	1.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (14-16`)

Phoenix I.D.: CL40182

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND		28	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		9.5	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND		4.7	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		9.5	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	0.90	J	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		9.5	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND		4.7	0.95	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND		4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	95				%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	101				%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	96				%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		240	96	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		240	95	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		240	85	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		170	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		240	97	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		240	97	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		240	130	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (14-16`)

Phoenix I.D.: CL40182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	340	680	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	200	68	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	95	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	680	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	88	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	94	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	92	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	91	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	88	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	95	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-7 (14-16`)

Phoenix I.D.: CL40182

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	84	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	105			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	81			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	74			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	73			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	81			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	67	67	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	68			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	55			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	87			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

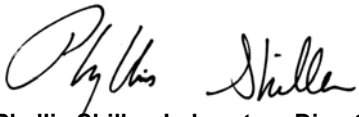
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:35
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40183

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	14300	40	8.0	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	5.38	0.80	0.80	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	122	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.96	0.32	0.16	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	13800	40	37	mg/Kg	10	06/01/22	EK	SW6010D	
Cadmium	2.24	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	9.47	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	24.6	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	70.9	0.8	0.40	mg/kg	1	06/01/22	EK	SW6010D	
Iron	20500	40	40	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	0.28	0.03	0.02	mg/Kg	1	06/01/22	IE	SW7471B	
Potassium	2130	8	3.1	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	7280	40	40	mg/Kg	10	06/01/22	EK	SW6010D	
Manganese	511	4.0	4.0	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	465	8	3.5	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	76.9	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	200	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	4.0	4.0	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.6	1.4	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.6	1.6	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	24.6	0.40	0.40	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	41.5	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	202	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	89			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.45	0.45	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	8.21	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-90.6			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (0-2`)

Phoenix I.D.: CL40183

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.56	0.281	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	KL/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.278	0.0285	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.278	0.0735	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.278	0.116	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.278	0.116	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.278	0.0570	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.278	0.0549	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.278	0.0520	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.278	0.223	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.278	0.0570	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.278	0.0835	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.278	0.0507	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.278	0.0345	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.278	0.0734	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.278	0.203	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.278	0.0666	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.278	0.0488	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	0.449	0.278	0.0860	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.278	0.102	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.278	0.0832	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.278	0.0484	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.278	0.129	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	50.9			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	53.6			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	75.8			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	60.1			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	39.7			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	85.6			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	66.5			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	58.7			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	67.6			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	66.9			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	45.8			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	43.0			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	35.6			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	55.6			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	53.0			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	57.8			%	1	06/10/22	***	25 - 150 %	C

Ver 1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	69.3			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	45.2			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	74	74	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	76			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	70			%	2	06/02/22	SC	30 - 150 %	
% TCMX	63			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	68			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	06/04/22	AW	SW8081B	
4,4' -DDT	ND	2.2	2.2	ug/Kg	2	06/04/22	AW	SW8081B	
a-BHC	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
a-Chlordane	ND	3.7	3.7	ug/Kg	2	06/04/22	AW	SW8081B	
Alachlor	ND	3.7	3.7	ug/Kg	2	06/04/22	AW	SW8081B	
Aldrin	ND	3.7	3.7	ug/Kg	2	06/04/22	AW	SW8081B	
b-BHC	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Chlordane	ND	37	37	ug/Kg	2	06/04/22	AW	SW8081B	
d-BHC	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Dieldrin	ND	3.7	3.7	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan I	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan II	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Endosulfan sulfate	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin aldehyde	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Endrin ketone	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/04/22	AW	SW8081B	
g-Chlordane	ND	3.7	3.7	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Heptachlor epoxide	ND	7.4	7.4	ug/Kg	2	06/04/22	AW	SW8081B	
Methoxychlor	ND	37	37	ug/Kg	2	06/04/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/04/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	87			%	2	06/04/22	AW	30 - 150 %	
% DCBP (Confirmation)	55			%	2	06/04/22	AW	30 - 150 %	
% TCMX	75			%	2	06/04/22	AW	30 - 150 %	
% TCMX (Confirmation)	66			%	2	06/04/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	29	5.8	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	29	5.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	29	5.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	12	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	5.8	2.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	

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m&p-Xylene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	35	5.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	5.8	5.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	12	2.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	12	2.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.8	1.2	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	5.8	0.58	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	92			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	94			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	94			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	260	91	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	260	260	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	260	230	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	370	730	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	73	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	370	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	370	220	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	260	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	260	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	99	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	260	97	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	260	95	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	260	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (0-2`)

Phoenix I.D.: CL40183

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	260	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	260	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	260	90	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	103			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	78			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	52			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	61			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	65			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	74			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	74	74	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	70			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	56			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	85			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

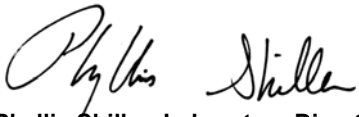
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:40
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40184

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.35	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	4660	35	6.9	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.24	0.69	0.69	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	21.4	0.7	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.30	0.28	0.14	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	483	3.5	3.2	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	0.68	0.35	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	6.41	0.35	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	13.5	0.35	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	10.1	0.7	0.35	mg/kg	1	06/01/22	EK	SW6010D	
Iron	10600	35	35	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	561	7	2.7	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	1840	3.5	3.5	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	233	3.5	3.5	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	142	7	3.0	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	42.7	0.35	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	3.6	0.7	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.5	3.5	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	13.5	0.35	0.35	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	15.1	0.35	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	18.8	0.7	0.35	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	95			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.37	0.37	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.83	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-75.3			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Phoenix I.D.: CL40184

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.53	0.263	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.262	0.0269	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.262	0.0692	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.262	0.109	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.262	0.110	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.262	0.0537	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.262	0.0517	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.262	0.0490	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.262	0.210	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.262	0.0537	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.262	0.0787	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.262	0.0477	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.262	0.0325	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.262	0.0691	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.262	0.192	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.262	0.0627	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.262	0.0459	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.262	0.0810	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.262	0.0964	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.262	0.0784	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.262	0.0456	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.262	0.122	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	45.6			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	56.1			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	72.4			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	57.7			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	46.3			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	82.0			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	70.3			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	68.8			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	68.3			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	71.3			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	49.3			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	50.0			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	50.4			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	63.1			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	65.0			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	65.1			%	1	06/10/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Phoenix I.D.: CL40184

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	73.1			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	50.1			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	69	69	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	59			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	51			%	2	06/02/22	SC	30 - 150 %	
% TCMX	43			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	44			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/03/22	AW	SW8081B	
a-BHC	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
b-BHC	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/03/22	AW	SW8081B	
d-BHC	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan I	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan II	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan sulfate	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin aldehyde	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin ketone	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/03/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor epoxide	ND	6.9	6.9	ug/Kg	2	06/03/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/03/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/03/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	63			%	2	06/03/22	AW	30 - 150 %	
% DCBP (Confirmation)	50			%	2	06/03/22	AW	30 - 150 %	
% TCMX	54			%	2	06/03/22	AW	30 - 150 %	
% TCMX (Confirmation)	45			%	2	06/03/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Phoenix I.D.: CL40184

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	14	2.8	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	14	2.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	14	2.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	5.6	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	2.8	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Phoenix I.D.: CL40184

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND		17	2.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		5.6	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND		2.8	2.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND		2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND		2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND		2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	0.77	J	2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		5.6	1.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.6	1.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND		2.8	0.56	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND		2.8	0.28	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	97				%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	99				%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	93				%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		240	96	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		240	95	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		240	85	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		170	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		240	97	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		240	97	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		240	130	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Phoenix I.D.: CL40184

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	340	680	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	68	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	340	150	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	680	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	88	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	94	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	92	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	91	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	88	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	96	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (6-8`)

Phoenix I.D.: CL40184

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	84	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	97			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	70			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	53			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	65			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	67			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	76			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	68	68	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	71			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	69			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	88			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

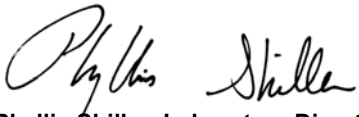
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:50
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40185

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-8 (14-16`)

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Aluminum	2960		36	7.2	mg/Kg	10	05/31/22	CPP	SW6010D	
Arsenic	1.17		0.72	0.72	mg/Kg	1	05/31/22	CPP	SW6010D	
Barium	31.0		0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Beryllium	0.24	J	0.29	0.14	mg/Kg	1	05/31/22	CPP	SW6010D	
Calcium	734		3.6	3.3	mg/Kg	1	05/31/22	CPP	SW6010D	
Cadmium	0.58		0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Cobalt	5.16		0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Chromium	7.93		0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Copper	8.2		0.7	0.36	mg/kg	1	05/31/22	CPP	SW6010D	
Iron	7690		3.6	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Mercury	ND		0.03	0.02	mg/Kg	1	06/01/22	IE	SW7471B	
Potassium	516		7	2.8	mg/Kg	1	05/31/22	CPP	SW6010D	
Magnesium	1760		3.6	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Manganese	119		0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Sodium	128		7	3.1	mg/Kg	1	05/31/22	CPP	SW6010D	
Nickel	47.5		0.36	0.36	mg/Kg	1	06/02/22	EK	SW6010D	
Lead	2.8		0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Antimony	ND		3.6	3.6	mg/Kg	1	05/31/22	CPP	SW6010D	
Selenium	ND		1.4	1.2	mg/Kg	1	05/31/22	CPP	SW6010D	
Thallium	ND		1.4	1.4	mg/Kg	1	05/31/22	CPP	SW6010D	
Trivalent Chromium	7.93		0.36	0.36	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	9.09		0.36	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Zinc	18.9		0.7	0.36	mg/Kg	1	05/31/22	CPP	SW6010D	
Percent Solid	94				%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND		0.40	0.40	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.79		1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-82.2				mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.53	0.266	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Client MS/MSD	Completed					06/02/22			
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	KL/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/27/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.249	0.0255	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.249	0.0658	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.249	0.104	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.249	0.104	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.249	0.0511	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.249	0.0492	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.249	0.0466	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.249	0.200	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.249	0.0511	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.249	0.0748	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.249	0.0454	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.249	0.0309	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.249	0.0657	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.249	0.182	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.249	0.0597	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.249	0.0437	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.249	0.0770	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.249	0.0917	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.249	0.0745	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.249	0.0434	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.249	0.116	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	17.1			%	1	06/10/22	***	25 - 150 %	C,3
% d5-NEtFOSA	10.4			%	1	06/10/22	***	25 - 150 %	C,3
% M2-6:2FTS	53.9			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	30.5			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	6.22			%	1	06/10/22	***	10 - 150 %	C,3
% M3PFBS	65.8			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	57.7			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	56.5			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	64.5			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	67.1			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	25.3			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	16.6			%	1	06/10/22	***	25 - 150 %	C,3
% M8FOSA	4.72			%	1	06/10/22	***	10 - 150 %	C,3
% M8PFOA	47.0			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	36.4			%	1	06/10/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M9PFNA	46.0			%	1	06/10/22	***	25 - 150 %	C
% MPFBA	71.3			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	11.2			%	1	06/10/22	***	25 - 150 %	C,3
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	83			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	78			%	2	06/01/22	SC	30 - 150 %	
% TCMX	55			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	62			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	62			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	68			%	2	06/01/22	AW	30 - 150 %	
% TCMX	56			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	59			%	2	06/01/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	25	5.0	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	25	5.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	10	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	5.0	2.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	5.0	5.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	95			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	93			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	05/30/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	98	ug/Kg	1	05/30/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/30/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/30/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/30/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/30/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/30/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/30/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/30/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/30/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/30/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/30/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/30/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/30/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/30/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/30/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Acenaphthylene	ND	250	98	ug/Kg	1	05/30/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/30/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Benzoic acid	ND	1800	700	ug/Kg	1	05/30/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/30/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	05/30/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	05/30/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D
Carbazole	ND	180	140	ug/Kg	1	05/30/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/30/22	WB	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/30/22	WB	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/30/22	WB	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/30/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/30/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/30/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Isophorone	ND	180	98	ug/Kg	1	05/30/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	05/30/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	05/30/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/30/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	130	ug/Kg	1	05/30/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/30/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/30/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/30/22	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	110	ug/Kg	1	05/30/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/30/22	WB	SW8270D
Pyridine	ND	250	86	ug/Kg	1	05/30/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	90			%	1	05/30/22	WB	30 - 130 %
% 2-Fluorobiphenyl	78			%	1	05/30/22	WB	30 - 130 %
% 2-Fluorophenol	60			%	1	05/30/22	WB	30 - 130 %
% Nitrobenzene-d5	68			%	1	05/30/22	WB	30 - 130 %
% Phenol-d5	68			%	1	05/30/22	WB	30 - 130 %
% Terphenyl-d14	70			%	1	05/30/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	69	69	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	62			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	61			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	88			%	1	06/01/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	8:50
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40186

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	15700	40	7.9	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	6.85	0.79	0.79	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	80.3	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.75	0.32	0.16	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	1970	4.0	3.6	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	1.50	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	10.3	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	22.8	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	23.6	0.8	0.40	mg/kg	1	06/01/22	EK	SW6010D	
Iron	20500	40	40	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	0.09	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	897	8	3.1	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	2410	4.0	4.0	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	599	4.0	4.0	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	341	8	3.4	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	29.4	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	37.9	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	4.0	4.0	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.6	1.3	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.6	1.6	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	22.8	0.40	0.40	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	32.1	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	47.5	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	83			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.46	0.46	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	8.01	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-66.8			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Phoenix I.D.: CL40186

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.60	0.301	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.291	0.0298	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.291	0.0767	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.291	0.121	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.291	0.121	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.291	0.0595	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.291	0.0573	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.291	0.0543	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.291	0.232	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.291	0.0595	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.291	0.0872	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.291	0.0529	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.291	0.0360	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.291	0.0766	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.291	0.212	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.291	0.0695	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.291	0.0509	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.291	0.0897	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.291	0.107	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.291	0.0868	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.291	0.0506	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.291	0.135	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	42.9			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	60.2			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	75.0			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	47.6			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	49.4			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	78.6			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	62.7			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	66.0			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	70.3			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	68.3			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	48.3			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	50.0			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	45.9			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	57.1			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	52.2			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	57.7			%	1	06/10/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Phoenix I.D.: CL40186

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	72.2			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	54.3			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	79	79	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	69			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	66			%	2	06/02/22	SC	30 - 150 %	
% TCMX	59			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	63			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.4	2.4	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	06/03/22	AW	SW8081B	
a-BHC	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
a-Chlordane	ND	4.0	4.0	ug/Kg	2	06/03/22	AW	SW8081B	
Alachlor	ND	4.0	4.0	ug/Kg	2	06/03/22	AW	SW8081B	
Aldrin	ND	4.0	4.0	ug/Kg	2	06/03/22	AW	SW8081B	
b-BHC	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Chlordane	ND	40	40	ug/Kg	2	06/03/22	AW	SW8081B	
d-BHC	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Dieldrin	ND	4.0	4.0	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan I	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan II	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan sulfate	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin aldehyde	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin ketone	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
g-BHC	ND	1.6	1.6	ug/Kg	2	06/03/22	AW	SW8081B	
g-Chlordane	ND	4.0	4.0	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor epoxide	ND	7.9	7.9	ug/Kg	2	06/03/22	AW	SW8081B	
Methoxychlor	ND	40	40	ug/Kg	2	06/03/22	AW	SW8081B	
Toxaphene	ND	160	160	ug/Kg	2	06/03/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	64			%	2	06/03/22	AW	30 - 150 %	
% DCBP (Confirmation)	56			%	2	06/03/22	AW	30 - 150 %	
% TCMX	67			%	2	06/03/22	AW	30 - 150 %	
% TCMX (Confirmation)	61			%	2	06/03/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Phoenix I.D.: CL40186

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	23	4.6	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	23	4.6	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	9.2	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.6	1.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Phoenix I.D.: CL40186

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	27	4.6	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.2	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	4.6	4.6	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	5.7	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.2	2.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.2	2.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.6	0.92	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	86			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	100			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	92			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	200	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	270	97	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	200	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	270	250	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Phoenix I.D.: CL40186

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	200	190	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	390	780	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	240	78	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	390	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	390	180	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	310	310	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	390	230	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	2000	780	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	200	160	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	270	100	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	200	120	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	200	110	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	200	140	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	200	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	240	150	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (0-2`)

Phoenix I.D.: CL40186

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	270	96	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	82			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	74			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	67			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	71			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	63			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	80	80	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	61			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	48			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	91			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

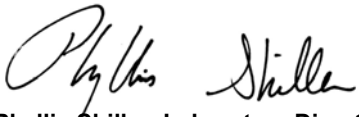
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	9:05
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40187

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	5450	37	7.4	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.91	0.74	0.74	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	30.3	0.7	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.37	0.30	0.15	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	841	3.7	3.4	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	0.94	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	11.2	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	23.6	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	17.0	0.7	0.37	mg/kg	1	06/01/22	EK	SW6010D	
Iron	15700	37	37	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	727	7	2.9	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	2720	3.7	3.7	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	318	3.7	3.7	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	183	7	3.2	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	88.4	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	5.6	0.7	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.7	3.7	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	23.6	0.37	0.37	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	19.8	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	29.2	0.7	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	90			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.41	0.41	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	6.04	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-6.9			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Phoenix I.D.: CL40187

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.56	0.278	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.259	0.0265	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.259	0.0684	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.259	0.108	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.259	0.108	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.259	0.0530	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.259	0.0511	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.259	0.0484	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.259	0.207	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.259	0.0530	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.259	0.0777	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.259	0.0471	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.259	0.0321	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.259	0.0683	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.259	0.189	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.259	0.0619	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.259	0.0454	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.259	0.0800	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.259	0.0952	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.259	0.0774	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.259	0.0451	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.259	0.120	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	51.9			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	51.1			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	67.3			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	58.9			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	51.5			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	88.0			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	73.6			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	74.3			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	71.5			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	72.8			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	51.7			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	50.9			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	45.7			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	59.5			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	68.3			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	67.4			%	1	06/10/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Phoenix I.D.: CL40187

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	74.4			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	52.6			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	72	72	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	70			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	60			%	2	06/02/22	SC	30 - 150 %	
% TCMX	52			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	53			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDT	ND	2.2	2.2	ug/Kg	2	06/03/22	AW	SW8081B	
a-BHC	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
a-Chlordane	ND	3.6	3.6	ug/Kg	2	06/03/22	AW	SW8081B	
Alachlor	ND	3.6	3.6	ug/Kg	2	06/03/22	AW	SW8081B	
Aldrin	ND	3.6	3.6	ug/Kg	2	06/03/22	AW	SW8081B	
b-BHC	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Chlordane	ND	36	36	ug/Kg	2	06/03/22	AW	SW8081B	
d-BHC	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Dieldrin	ND	3.6	3.6	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan I	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan II	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan sulfate	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin aldehyde	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin ketone	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/03/22	AW	SW8081B	
g-Chlordane	ND	3.6	3.6	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor epoxide	ND	7.2	7.2	ug/Kg	2	06/03/22	AW	SW8081B	
Methoxychlor	ND	36	36	ug/Kg	2	06/03/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/03/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	66			%	2	06/03/22	AW	30 - 150 %	
% DCBP (Confirmation)	54			%	2	06/03/22	AW	30 - 150 %	
% TCMX	64			%	2	06/03/22	AW	30 - 150 %	
% TCMX (Confirmation)	48			%	2	06/03/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Phoenix I.D.: CL40187

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	24	4.8	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	24	4.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	9.7	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.8	1.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Phoenix I.D.: CL40187

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.7	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	4.8	4.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.7	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.7	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.8	0.97	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	4.8	0.48	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	98			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	94			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	95			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	95			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	90	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Phoenix I.D.: CL40187

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	360	730	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	73	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	360	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	360	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	290	290	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	360	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	180	98	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	180	150	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	250	97	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (6-8`)

Phoenix I.D.: CL40187

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	90	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	95			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	78			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	58			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	67			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	68			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	78			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	72	72	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	65			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	60			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	85			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

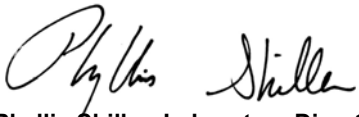
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	9:15
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40188

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	5970	37	7.5	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.50	0.75	0.75	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	31.1	0.7	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	1.65	0.30	0.15	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	1310	3.7	3.4	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	1.58	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	9.59	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	23.0	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	9.3	0.7	0.37	mg/kg	1	06/01/22	EK	SW6010D	
Iron	14800	37	37	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	927	7	2.9	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	6250	37	37	mg/Kg	10	06/01/22	EK	SW6010D	
Manganese	238	3.7	3.7	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	166	7	3.2	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	101	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	4.7	0.7	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.7	3.7	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	23.0	0.37	0.37	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	29.0	0.37	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	36.9	0.7	0.37	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.37	0.37	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.35	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-57.9			mV	1	05/28/22	MW	SM2580B-09	1

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Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (14-16`)

Phoenix I.D.: CL40188

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.53	0.266	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for Pesticide	Completed					05/31/22	O/MO	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.249	0.0255	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.249	0.0657	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.249	0.104	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.249	0.104	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.249	0.0510	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.249	0.0491	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.249	0.0465	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.249	0.199	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.249	0.0510	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.249	0.0747	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.249	0.0453	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.249	0.0309	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.249	0.0656	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.249	0.182	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.249	0.0596	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.249	0.0436	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	0.445	0.249	0.0769	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.249	0.0915	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.249	0.0744	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.249	0.0433	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.249	0.116	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	57.6			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	59.7			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	87.4			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	56.0			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	50.2			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	88.1			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	78.6			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	73.8			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	77.5			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	75.6			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	53.9			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	54.9			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	44.9			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	65.5			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	69.6			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	66.9			%	1	06/10/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	78.1			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	48.2			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	52			%	2	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	47			%	2	06/02/22	SC	30 - 150 %	
% TCMX	40			%	2	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	41			%	2	06/02/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/03/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/03/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/03/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/03/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/03/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/03/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/03/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	49			%	2	06/03/22	AW	30 - 150 %	
% DCBP (Confirmation)	40			%	2	06/03/22	AW	30 - 150 %	
% TCMX	47			%	2	06/03/22	AW	30 - 150 %	
% TCMX (Confirmation)	35			%	2	06/03/22	AW	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	38	7.7	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	38	7.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	38	7.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	15	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	7.7	3.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	46	7.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	15	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	7.7	7.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	15	3.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	15	3.8	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	7.7	1.5	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	7.7	0.77	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	94			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	106			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	85	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (14-16`)

Phoenix I.D.: CL40188

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	340	690	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	69	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	340	110	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	340	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	340	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	690	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	89	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	95	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	93	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	91	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	89	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	96	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-9 (14-16`)

Phoenix I.D.: CL40188

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	85	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	84			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	75			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	60			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	73			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	74			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	70			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	69	69	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	64			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	59			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	94			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

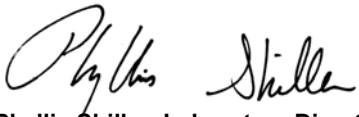
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	12:55
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40189

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (0-2`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	11100	40	8.0	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	6.24	0.80	0.80	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	116	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.59	0.32	0.16	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	6710	4.0	3.7	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	2.17	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	8.27	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	22.6	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	44.5	0.8	0.40	mg/kg	1	06/01/22	EK	SW6010D	
Iron	17200	40	40	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	0.27	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	1040	8	3.1	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	4470	4.0	4.0	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	349	4.0	4.0	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	157	8	3.4	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	32.9	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	191	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	4.0	4.0	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.6	1.4	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.6	1.6	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	22.6	0.40	0.40	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	27.7	0.40	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	220	0.8	0.40	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	86			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.42	0.42	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.61	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-17.7			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (0-2`)

Phoenix I.D.: CL40189

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.58	0.291	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.289	0.0296	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.289	0.0763	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.289	0.120	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.289	0.121	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.289	0.0592	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.289	0.0570	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.289	0.0540	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.289	0.231	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.289	0.0592	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.289	0.0867	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.289	0.0526	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.289	0.0358	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.289	0.0762	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.289	0.211	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.289	0.0691	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.289	0.0506	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.289	0.0892	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.289	0.106	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.289	0.0864	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.289	0.0503	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.289	0.134	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	67.9			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	81.4			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	176			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	125			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	62.8			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	96.1			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	86.2			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	62.3			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	77.4			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	82.4			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	61.5			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	58.8			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	48.6			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	67.1			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	81.9			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	73.0			%	1	06/10/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (0-2`)

Phoenix I.D.: CL40189

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	86.1			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	57.8			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	76	76	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	68			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	61			%	2	06/01/22	SC	30 - 150 %	
% TCMX	54			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	58			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	8.7	2.3	2.3	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.5	1.5	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.8	3.8	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	38	38	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	150	150	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	52			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	55			%	2	06/01/22	AW	30 - 150 %	
% TCMX	53			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	54			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (0-2`)

Phoenix I.D.: CL40189

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	24	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	24	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	24	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	9.8	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.9	2.0	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.8	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	4.9	4.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	520	290	58	ug/Kg	50	06/01/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.8	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.8	2.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.9	0.98	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	4.9	0.49	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	107			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	98			%	1	05/31/22	JLI	70 - 130 %	
% 1,2-dichlorobenzene-d4 (50x)	103			%	50	06/01/22	JLI	70 - 130 %	
% Bromofluorobenzene (50x)	89			%	50	06/01/22	JLI	70 - 130 %	
% Dibromofluoromethane (50x)	96			%	50	06/01/22	JLI	70 - 130 %	
% Toluene-d8 (50x)	96			%	50	06/01/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	190	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		270	270	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		270	240	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	1	05/31/22	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	05/31/22	WB	SW8270D	
3-Nitroaniline	ND		380	770	ug/Kg	1	05/31/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND		230	77	ug/Kg	1	05/31/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloroaniline	ND		310	180	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitroaniline	ND		380	130	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitrophenol	ND		380	170	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthylene	200	J	270	110	ug/Kg	1	05/31/22	WB	SW8270D	
Acetophenone	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Aniline	ND		310	310	ug/Kg	1	05/31/22	WB	SW8270D	
Anthracene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benz(a)anthracene	380		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzidine	ND		380	230	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(a)pyrene	530		190	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(b)fluoranthene	690		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(ghi)perylene	390		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(k)fluoranthene	480		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Benzoic acid	ND		1900	770	ug/Kg	1	05/31/22	WB	SW8270D	
Benzyl butyl phthalate	ND		270	99	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
Carbazole	ND		190	150	ug/Kg	1	05/31/22	WB	SW8270D	
Chrysene	470		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenzofuran	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
Diethyl phthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Dimethylphthalate	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-butylphthalate	ND		270	100	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-octylphthalate	ND		270	99	ug/Kg	1	05/31/22	WB	SW8270D	
Fluoranthene	570		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Fluorene	ND		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobenzene	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobutadiene	ND		270	140	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachloroethane	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	390		270	130	ug/Kg	1	05/31/22	WB	SW8270D	
Isophorone	ND		190	110	ug/Kg	1	05/31/22	WB	SW8270D	
Naphthalene	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
Nitrobenzene	ND		190	130	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodimethylamine	ND		270	110	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	05/31/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	230	150	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	270	110	ug/Kg	1	05/31/22	WB	SW8270D
Phenol	ND	270	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	600	270	130	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	270	94	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	96			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	76			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	62			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	73			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	72			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	74			%	1	05/31/22	WB	30 - 130 %

1,4-Dioxane

1,4-dioxane	ND	75	75	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	64			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	48			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	84			%	1	06/01/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:00
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40190

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (6-8`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.32	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	6030	32	6.4	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.95	0.64	0.64	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	30.3	0.6	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.42	0.26	0.13	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	1280	3.2	3.0	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	0.78	0.32	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	8.30	0.32	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	15.5	0.32	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	12.3	0.6	0.32	mg/kg	1	06/01/22	EK	SW6010D	
Iron	12000	32	32	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	1010	6	2.5	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	2850	3.2	3.2	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	254	3.2	3.2	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	407	6	2.8	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	56.5	0.32	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	5.1	0.6	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.2	3.2	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.3	1.1	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.3	1.3	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	15.05	0.32	0.32	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	17.3	0.32	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	22.4	0.6	0.32	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	96			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	0.45	0.38	0.38	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	6.91	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-17.1			mV	1	05/28/22	MW	SM2580B-09	1

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Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (6-8`)

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.52	0.260	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C

PFAS (21)

1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.270	0.0277	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.270	0.0714	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	ND	0.270	0.113	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.270	0.113	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.270	0.0554	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.270	0.0533	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.270	0.0505	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.270	0.216	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.270	0.0554	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.270	0.0811	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.270	0.0492	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.270	0.0335	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.270	0.0713	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.270	0.198	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.270	0.0647	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.270	0.0474	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.270	0.0835	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.270	0.0994	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.270	0.0808	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.270	0.0470	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.270	0.126	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	59.1			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	58.8			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	73.4			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	73.0			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	62.0			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	87.1			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	73.9			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	74.1			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	78.4			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	79.3			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	57.3			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	57.5			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	53.9			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	59.4			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	64.8			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	78.2			%	1	06/10/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	82.2			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	61.0			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	68	68	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	76			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	69			%	2	06/01/22	SC	30 - 150 %	
% TCMX	51			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	56			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	34	34	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.4	3.4	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	6.8	6.8	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	34	34	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	50			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	44			%	2	06/01/22	AW	30 - 150 %	
% TCMX	57			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	51			%	2	06/01/22	AW	30 - 150 %	

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Volatiles

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
2-Hexanone	ND	23	4.6	ug/Kg	1	06/01/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	23	4.6	ug/Kg	1	06/01/22	JLI	SW8260C	
Acetone	ND	23	4.6	ug/Kg	1	06/01/22	JLI	SW8260C	
Acrylonitrile	ND	9.3	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Benzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromobenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromochloromethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromodichloromethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromoform	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Bromomethane	ND	4.6	1.9	ug/Kg	1	06/01/22	JLI	SW8260C	
Carbon Disulfide	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Chlorobenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Chloroethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Chloroform	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Chloromethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Dibromochloromethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Dibromomethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Dichlorodifluoromethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Ethylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Isopropylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	28	4.6	ug/Kg	1	06/01/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.3	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Methylene chloride	ND	4.6	4.6	ug/Kg	1	06/01/22	JLI	SW8260C	
Naphthalene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
n-Butylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
n-Propylbenzene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
o-Xylene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Styrene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Tetrachloroethene	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.3	2.3	ug/Kg	1	06/01/22	JLI	SW8260C	
Toluene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.3	2.3	ug/Kg	1	06/01/22	JLI	SW8260C	
Trichloroethene	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.6	0.93	ug/Kg	1	06/01/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
Vinyl chloride	ND	4.6	0.46	ug/Kg	1	06/01/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	06/01/22	JLI	70 - 130 %	
% Bromofluorobenzene	93			%	1	06/01/22	JLI	70 - 130 %	
% Dibromofluoromethane	100			%	1	06/01/22	JLI	70 - 130 %	
% Toluene-d8	97			%	1	06/01/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	86	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/31/22	WB	SW8270D	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	690	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	69	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	200	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	690	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	89	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	93	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	92	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	89	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	97	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (6-8`)

Phoenix I.D.: CL40190

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	85	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	89			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	68			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	54			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	66			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	65			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	65			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	68	68	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	59			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	52			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	84			%	1	06/01/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

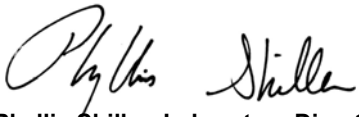
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	13:10
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40191

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	4930	36	7.3	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	2.91	0.73	0.73	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	85.6	0.7	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.33	0.29	0.15	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	2600	3.6	3.3	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	1.53	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	9.37	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	27.7	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	26.8	0.7	0.36	mg/kg	1	06/01/22	EK	SW6010D	
Iron	16400	36	36	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	0.03	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	1070	7	2.8	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	6210	36	36	mg/Kg	10	06/01/22	EK	SW6010D	
Manganese	292	3.6	3.6	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	185	7	3.1	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	85.2	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	131	0.7	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.6	3.6	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.5	1.2	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	27.7	0.36	0.36	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	19.0	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	109	0.7	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	93			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.36	0.36	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.71	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-32.7			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (14-16`)

Phoenix I.D.: CL40191

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.54	0.269	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Extraction for SVOA SIM	Completed					05/31/22	O/MO	SW3545A	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
PFAS (21)	Completed					06/07/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	0.257	0.0263	ng/g	1	06/10/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	0.257	0.0679	ng/g	1	06/10/22	***	EPA 537m	C
NEtFOSAA	0.448	0.257	0.107	ng/g	1	06/10/22	***	EPA 537m	C
NMeFOSAA	ND	0.257	0.107	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.257	0.0527	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.257	0.0507	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.257	0.0480	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	0.257	0.206	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	0.257	0.0527	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	0.257	0.0772	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	0.257	0.0468	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.257	0.0319	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	0.257	0.0678	ng/g	1	06/10/22	***	EPA 537m	C,B
Perfluoro-n-butanoic acid (PFBA)	ND	0.257	0.188	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	0.257	0.0615	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	0.257	0.0451	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	0.257	0.0794	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	0.257	0.0945	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	0.257	0.0768	ng/g	1	06/10/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	0.257	0.0448	ng/g	1	06/10/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	0.257	0.120	ng/g	1	06/10/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	62.8			%	1	06/10/22	***	25 - 150 %	C
% d5-NEtFOSA	66.4			%	1	06/10/22	***	25 - 150 %	C
% M2-6:2FTS	185			%	1	06/10/22	***	25 - 200 %	C
% M2-8:2FTS	144			%	1	06/10/22	***	25 - 200 %	C
% M2PFTeDA	61.9			%	1	06/10/22	***	10 - 150 %	C
% M3PFBS	99.0			%	1	06/10/22	***	25 - 150 %	C
% M3PFHxS	86.9			%	1	06/10/22	***	25 - 150 %	C
% M4PFHpA	62.6			%	1	06/10/22	***	25 - 150 %	C
% M5PFHxA	74.7			%	1	06/10/22	***	25 - 150 %	C
% M5PFPeA	79.1			%	1	06/10/22	***	25 - 150 %	C
% M6PFDA	55.9			%	1	06/10/22	***	25 - 150 %	C
% M7PFUdA	48.5			%	1	06/10/22	***	25 - 150 %	C
% M8FOSA	37.7			%	1	06/10/22	***	10 - 150 %	C
% M8PFOA	58.4			%	1	06/10/22	***	25 - 150 %	C
% M8PFOS	71.0			%	1	06/10/22	***	25 - 150 %	C
% M9PFNA	64.3			%	1	06/10/22	***	25 - 150 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (14-16`)

Phoenix I.D.: CL40191

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% MPFBA	84.6			%	1	06/10/22	***	25 - 150 %	C
% MPFDoA	50.8			%	1	06/10/22	***	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	65			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	58			%	2	06/01/22	SC	30 - 150 %	
% TCMX	47			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	54			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	6.3	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									
% DCBP	44			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	35			%	2	06/01/22	AW	30 - 150 %	
% TCMX	52			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	43			%	2	06/01/22	AW	30 - 150 %	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (14-16`)

Phoenix I.D.: CL40191

Volatiles

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND		17	3.4	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND		17	3.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	8.8	JS	17	3.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND		6.8	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND		3.4	1.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Dichlorodifluoromethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-10 (14-16`)

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND		20	3.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		6.8	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND		3.4	3.4	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	1.9	J	3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		6.8	1.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		6.8	1.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND		3.4	0.68	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND		3.4	0.34	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93				%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	109				%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	99				%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		240	99	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND		240	97	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND		240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND		170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND		240	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND		170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND		170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND		240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND		240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND		240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND		240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND		240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		240	140	ug/Kg	1	05/31/22	WB	SW8270D	1

Project ID: 1665 STILLWELL AVENUE
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	05/31/22	WB	SW8270D
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Acenaphthylene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Benzo(k)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Benzoic acid	ND	1700	700	ug/Kg	1	05/31/22	WB	SW8270D
Benzyl butyl phthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	170	94	ug/Kg	1	05/31/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D
Chrysene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-butylphthalate	ND	240	93	ug/Kg	1	05/31/22	WB	SW8270D
Di-n-octylphthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Fluorene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorobutadiene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Isophorone	ND	170	98	ug/Kg	1	05/31/22	WB	SW8270D
Naphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodimethylamine	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D

Project ID: 1665 STILLWELL AVENUE
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	86	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	95			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	79			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	59			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	72			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	73			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	69			%	1	05/31/22	WB	30 - 130 %
1,4-Dioxane								
1,4-dioxane	ND	71	71	ug/Kg	1	06/01/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2-Fluorobiphenyl	63			%	1	06/01/22	WB	30 - 130 %
% Nitrobenzene-d5	51			%	1	06/01/22	WB	30 - 130 %
% Terphenyl-d14	81			%	1	06/01/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
C = This parameter is subcontracted.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS (21) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by NY certified lab #12058.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40192

Project ID: 1665 STILLWELL AVENUE
Client ID: FD-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.38	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	7010	38	7.6	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.52	0.76	0.76	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	36.3	0.8	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.51	0.30	0.15	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	1310	3.8	3.5	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	0.98	0.38	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	13.7	0.38	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	47.0	0.38	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	17.2	0.8	0.38	mg/kg	1	06/01/22	EK	SW6010D	
Iron	16000	38	38	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	1900	8	3.0	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	5230	3.8	3.8	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	411	3.8	3.8	mg/Kg	10	06/01/22	EK	SW6010D	
Sodium	431	8	3.3	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	125	0.38	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	6.3	0.8	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.8	3.8	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.5	1.3	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.5	1.5	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	47.0	0.38	0.38	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	32.2	0.38	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	32.2	0.8	0.38	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	ND	0.39	0.39	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.74	1.00	1.00	pH Units	1	05/28/22 02:18	MW	SW846 9045D	1
Redox Potential	-21.7			mV	1	05/28/22	MW	SM2580B-09	1

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: FD-1

Phoenix I.D.: CL40192

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.53	0.266	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	92			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	79			%	2	06/01/22	SC	30 - 150 %	
% TCMX	66			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	67			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									

Project ID: 1665 STILLWELL AVENUE
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% DCBP	67			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	76			%	2	06/01/22	AW	30 - 150 %	
% TCMX	63			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	69			%	2	06/01/22	AW	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	23	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	23	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	23	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	9.4	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	4.7	1.9	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
m&p-Xylene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	28	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.4	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	4.7	4.7	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.4	2.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.4	2.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	4.7	0.94	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	4.7	0.47	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	105			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	250	88	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	

Ver 1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	250	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	05/31/22	WB	SW8270D	
3-Nitroaniline	ND	350	710	ug/Kg	1	05/31/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	05/31/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloroaniline	ND	280	170	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthylene	ND	250	99	ug/Kg	1	05/31/22	WB	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D	
Anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benz(a)anthracene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(a)pyrene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzoic acid	ND	1800	710	ug/Kg	1	05/31/22	WB	SW8270D	
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	250	98	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	180	96	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
Carbazole	ND	180	140	ug/Kg	1	05/31/22	WB	SW8270D	
Chrysene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenzofuran	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
Diethyl phthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Dimethylphthalate	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-butylphthalate	ND	250	94	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-octylphthalate	ND	250	91	ug/Kg	1	05/31/22	WB	SW8270D	
Fluoranthene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Fluorene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobenzene	ND	180	100	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobutadiene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachloroethane	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D	
Isophorone	ND	180	99	ug/Kg	1	05/31/22	WB	SW8270D	
Naphthalene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
Nitrobenzene	ND	180	120	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	05/31/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	05/31/22	WB	SW8270D
Phenol	ND	250	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	250	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	250	87	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	109			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	90			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	78			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	95			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	92			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	79			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	11:00
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40193

Project ID: 1665 STILLWELL AVENUE
Client ID: FD-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Aluminum	5580	36	7.2	mg/Kg	10	06/01/22	EK	SW6010D	
Arsenic	1.73	0.72	0.72	mg/Kg	1	06/01/22	EK	SW6010D	
Barium	21.2	0.7	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Beryllium	0.40	0.29	0.14	mg/Kg	1	06/01/22	EK	SW6010D	
Calcium	689	3.6	3.3	mg/Kg	1	06/01/22	EK	SW6010D	
Cadmium	0.86	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Cobalt	7.29	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Chromium	19.5	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Copper	14.5	0.7	0.36	mg/kg	1	06/01/22	EK	SW6010D	
Iron	13000	36	36	mg/Kg	10	06/01/22	EK	SW6010D	
Mercury	ND	0.03	0.02	mg/Kg	2	06/01/22	IE	SW7471B	
Potassium	594	7	2.8	mg/Kg	1	06/01/22	EK	SW6010D	
Magnesium	2510	3.6	3.6	mg/Kg	1	06/01/22	EK	SW6010D	
Manganese	110	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Sodium	71	7	3.1	mg/Kg	1	06/01/22	EK	SW6010D	
Nickel	50.9	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Lead	5.3	0.7	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Antimony	ND	3.6	3.6	mg/Kg	1	06/01/22	EK	SW6010D	
Selenium	ND	1.4	1.2	mg/Kg	1	06/01/22	EK	SW6010D	
Thallium	ND	1.4	1.4	mg/Kg	1	06/01/22	EK	SW6010D	
Trivalent Chromium	19.1	0.36	0.36	mg/kg	1	06/02/22		CALC 6010-7196	
Vanadium	19.3	0.36	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Zinc	24.5	0.7	0.36	mg/Kg	1	06/01/22	EK	SW6010D	
Percent Solid	94			%		05/27/22	K	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	0.40	0.38	0.38	mg/Kg	1	06/02/22	MCH	SW7196A	
pH at 25C - Soil	7.23	1.00	1.00	pH Units	1	05/28/22 02:19	MW	SW846 9045D	1
Redox Potential	-20.0			mV	1	05/28/22	MW	SM2580B-09	1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Cyanide (SW9010C Distill.)	ND	0.53	0.266	mg/Kg	1	06/02/22	M/C/B/G	SW9012B	
Soil Extraction for PCB	Completed					05/31/22	O/L	SW3545A	
Soil Extraction for Pesticides	Completed					05/31/22	O/L	SW3545A	
Field Extraction	Completed					05/26/22		SW5035A	1
Mercury Digestion	Completed					06/01/22	AB/AB	SW7471B	
Soil Extraction for SVOA	Completed					05/27/22	I/Y	SW3546	
Total Metals Digest	Completed					05/31/22	M/AG	SW3050B	
Polychlorinated Biphenyls									
PCB-1016	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1221	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1232	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1242	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1248	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1254	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1260	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1262	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
PCB-1268	ND	70	70	ug/Kg	2	06/01/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	86			%	2	06/01/22	SC	30 - 150 %	
% DCBP (Confirmation)	73			%	2	06/01/22	SC	30 - 150 %	
% TCMX	66			%	2	06/01/22	SC	30 - 150 %	
% TCMX (Confirmation)	66			%	2	06/01/22	SC	30 - 150 %	
Pesticides - Soil									
4,4' -DDD	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDE	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
4,4' -DDT	ND	2.1	2.1	ug/Kg	2	06/01/22	AW	SW8081B	
a-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
a-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Alachlor	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Aldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
b-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Chlordane	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
d-BHC	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Dieldrin	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan I	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan II	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endosulfan sulfate	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin aldehyde	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Endrin ketone	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
g-BHC	ND	1.4	1.4	ug/Kg	2	06/01/22	AW	SW8081B	
g-Chlordane	ND	3.5	3.5	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Heptachlor epoxide	ND	7.0	7.0	ug/Kg	2	06/01/22	AW	SW8081B	
Methoxychlor	ND	35	35	ug/Kg	2	06/01/22	AW	SW8081B	
Toxaphene	ND	140	140	ug/Kg	2	06/01/22	AW	SW8081B	
QA/QC Surrogates									

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% DCBP	64			%	2	06/01/22	AW	30 - 150 %	
% DCBP (Confirmation)	72			%	2	06/01/22	AW	30 - 150 %	
% TCMX	61			%	2	06/01/22	AW	30 - 150 %	
% TCMX (Confirmation)	65			%	2	06/01/22	AW	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	26	5.3	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	1
4-Chlorotoluene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
4-Methyl-2-pentanone	ND	26	5.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Acetone	ND	26	5.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Acrylonitrile	ND	11	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Benzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromobenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromochloromethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromodichloromethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromoform	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Bromomethane	ND	5.3	2.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon Disulfide	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Carbon tetrachloride	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Chlorobenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloroform	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Chloromethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromochloromethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Dibromomethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	

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Dichlorodifluoromethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Ethylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Hexachlorobutadiene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Isopropylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
m&p-Xylene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl Ethyl Ketone	ND	32	5.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Methylene chloride	ND	5.3	5.3	ug/Kg	1	05/31/22	JLI	SW8260C	
Naphthalene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Butylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
n-Propylbenzene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
o-Xylene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
p-Isopropyltoluene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
sec-Butylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Styrene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
tert-Butylbenzene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrachloroethene	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	11	2.6	ug/Kg	1	05/31/22	JLI	SW8260C	
Toluene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	11	2.6	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichloroethene	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorofluoromethane	ND	5.3	1.1	ug/Kg	1	05/31/22	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
Vinyl chloride	ND	5.3	0.53	ug/Kg	1	05/31/22	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	05/31/22	JLI	70 - 130 %	
% Bromofluorobenzene	93			%	1	05/31/22	JLI	70 - 130 %	
% Dibromofluoromethane	105			%	1	05/31/22	JLI	70 - 130 %	
% Toluene-d8	99			%	1	05/31/22	JLI	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	1	05/31/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dimethylphenol	ND	240	87	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrophenol	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chloronaphthalene	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Chlorophenol	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
2-Methylnaphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	

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2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitroaniline	ND	240	240	ug/Kg	1	05/31/22	WB	SW8270D	
2-Nitrophenol	ND	240	220	ug/Kg	1	05/31/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	1	05/31/22	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND	170	170	ug/Kg	1	05/31/22	WB	SW8270D	
3-Nitroaniline	ND	350	700	ug/Kg	1	05/31/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	210	70	ug/Kg	1	05/31/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chloroaniline	ND	280	160	ug/Kg	1	05/31/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitroaniline	ND	350	120	ug/Kg	1	05/31/22	WB	SW8270D	
4-Nitrophenol	ND	350	160	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Acenaphthylene	ND	240	98	ug/Kg	1	05/31/22	WB	SW8270D	
Acetophenone	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Aniline	ND	280	280	ug/Kg	1	05/31/22	WB	SW8270D	
Anthracene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Benz(a)anthracene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzidine	ND	350	210	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(a)pyrene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(b)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(ghi)perylene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Benzo(k)fluoranthene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
Benzoic acid	ND	1700	700	ug/Kg	1	05/31/22	WB	SW8270D	
Benzyl butyl phthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	240	97	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	170	94	ug/Kg	1	05/31/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
Carbazole	ND	170	140	ug/Kg	1	05/31/22	WB	SW8270D	
Chrysene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	
Dibenzofuran	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
Diethyl phthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Dimethylphthalate	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-butylphthalate	ND	240	93	ug/Kg	1	05/31/22	WB	SW8270D	
Di-n-octylphthalate	ND	240	90	ug/Kg	1	05/31/22	WB	SW8270D	
Fluoranthene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Fluorene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobenzene	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorobutadiene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D	
Hexachloroethane	ND	170	100	ug/Kg	1	05/31/22	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D	
Isophorone	ND	170	98	ug/Kg	1	05/31/22	WB	SW8270D	
Naphthalene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D	
Nitrobenzene	ND	170	120	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodimethylamine	ND	240	99	ug/Kg	1	05/31/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	05/31/22	WB	SW8270D	

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N-Nitrosodiphenylamine	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachloronitrobenzene	ND	240	130	ug/Kg	1	05/31/22	WB	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	05/31/22	WB	SW8270D
Phenanthrene	ND	240	100	ug/Kg	1	05/31/22	WB	SW8270D
Phenol	ND	240	110	ug/Kg	1	05/31/22	WB	SW8270D
Pyrene	ND	240	120	ug/Kg	1	05/31/22	WB	SW8270D
Pyridine	ND	240	86	ug/Kg	1	05/31/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	125			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorobiphenyl	104			%	1	05/31/22	WB	30 - 130 %
% 2-Fluorophenol	77			%	1	05/31/22	WB	30 - 130 %
% Nitrobenzene-d5	90			%	1	05/31/22	WB	30 - 130 %
% Phenol-d5	93			%	1	05/31/22	WB	30 - 130 %
% Terphenyl-d14	89			%	1	05/31/22	WB	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

*See attached

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40194

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 PFAS FB-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (21)	Completed					06/06/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	2.00	0.399	ng/L	1	06/07/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	5.00	0.492	ng/L	1	06/07/22	***	EPA 537m	C
NEtFOSAA	ND	2.00	0.557	ng/L	1	06/07/22	***	EPA 537m	C
NMeFOSAA	ND	2.00	0.529	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	0.574	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	0.415	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	0.296	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	0.294	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	2.00	0.524	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	2.00	0.777	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	2.00	0.635	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	0.281	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	2.00	0.471	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	1.63	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	2.00	0.574	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	0.292	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	2.00	0.531	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	2.00	0.452	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	2.00	0.531	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	1.37	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	2.00	0.657	ng/L	1	06/07/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	64.4			%	1	06/07/22	***	25 - 150 %	C
% d5-NEtFOSA	69.3			%	1	06/07/22	***	25 - 150 %	C
% M2-6:2FTS	115			%	1	06/07/22	***	25 - 200 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-6 PFAS FB-1

Phoenix I.D.: CL40194

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M2-8:2FTS	90.4			%	1	06/07/22	***	25 - 200 %	C
% M2PFTeDA	61.1			%	1	06/07/22	***	10 - 150 %	C
% M3PFBS	89.4			%	1	06/07/22	***	25 - 150 %	C
% M3PFHxS	86.8			%	1	06/07/22	***	25 - 150 %	C
% M4PFHpA	81.4			%	1	06/07/22	***	25 - 150 %	C
% M5PFHxA	78.5			%	1	06/07/22	***	25 - 150 %	C
% M5PFPeA	83.2			%	1	06/07/22	***	25 - 150 %	C
% M6PFDA	73.4			%	1	06/07/22	***	25 - 150 %	C
% M7PFUdA	75.2			%	1	06/07/22	***	25 - 150 %	C
% M8FOSA	37.7			%	1	06/07/22	***	10 - 150 %	C
% M8PFOA	72.2			%	1	06/07/22	***	25 - 150 %	C
% M8PFOS	79.0			%	1	06/07/22	***	25 - 150 %	C
% M9PFNA	80.3			%	1	06/07/22	***	25 - 150 %	C
% MPFBA	83.7			%	1	06/07/22	***	25 - 150 %	C
% MPFDoA	63.0			%	1	06/07/22	***	25 - 150 %	C

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40195

Project ID: 1665 STILLWELL AVENUE
Client ID: TB-1 LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed					05/26/22		SW5035A	1
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Hexanone	ND	25	5.0	ug/Kg	1	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C	1

Project ID: 1665 STILLWELL AVENUE
Client ID: TB-1 LL

Phoenix I.D.: CL40195

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	05/31/22	JLI	SW8260C
Acetone	ND	25	5.0	ug/Kg	1	05/31/22	JLI	SW8260C
Acrylonitrile	ND	10	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Benzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Bromobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Bromoform	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Bromomethane	ND	5.0	2.0	ug/Kg	1	05/31/22	JLI	SW8260C
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Chloroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Chloroform	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Chloromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Dibromomethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	05/31/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Methylene chloride	ND	5.0	5.0	ug/Kg	1	05/31/22	JLI	SW8260C
Naphthalene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
o-Xylene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Styrene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	05/31/22	JLI	SW8260C
Toluene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	05/31/22	JLI	SW8260C
Trichloroethene	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	05/31/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	05/31/22	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	96			%	1	05/31/22	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	05/31/22	JLI	70 - 130 %

Project ID: 1665 STILLWELL AVENUE
Client ID: TB-1 LL

Phoenix I.D.: CL40195

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97			%	1	05/31/22	JLI	70 - 130 %
% Toluene-d8	92			%	1	05/31/22	JLI	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40196

Project ID: 1665 STILLWELL AVENUE
Client ID: FB-1

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum	0.011	J	0.020	0.0024	mg/L	1	06/02/22	EK	SW6010D
Arsenic - LDL	ND		0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium	ND		0.010	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium	ND		0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium	0.088		0.010	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium	ND		0.004	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium	ND		0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron	0.02		0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury	0.0004		0.0002	0.00015	mg/L	1	05/31/22	IE	SW7470A
Potassium	ND		0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium	0.013		0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium	ND		0.10	0.1	mg/L	1	06/02/22	EK	SW6010D
Nickel	ND		0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead	ND		0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony	ND		0.003	0.003	mg/L	1	06/07/22	TH	SW7010
Selenium	ND		0.002	0.001	mg/L	0.5	05/31/22	TH	SW7010
Thallium - LDL	ND		0.001	0.001	mg/L	0.5	06/01/22	TH	SW7010
Trivalent Chromium	ND		0.001	0.001	mg/L	1	06/02/22		Calculation
Vanadium	ND		0.010	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc	ND		0.010	0.002	mg/L	1	06/02/22	EK	SW6010D
Chromium, Hexavalent	ND		0.01	0.01	mg/L	1	05/27/22 21:22	AKS	SM3500CRB-11
Total Cyanide	ND		0.010	0.005	mg/L	1	06/01/22	M/C/G	SW9010C/SW9012B
Mercury Digestion	Completed						05/31/22	AB/AB	SW7470A

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: FB-1

Phoenix I.D.: CL40196

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB Extraction (LDL)	Completed					06/01/22	B	SW3510C	
Extraction for Pest (LDL)	Completed					06/01/22	B/N	SW3510C	
Semi-Volatile Extraction	Completed					05/31/22	MA/MQ	SW3520C	
Total Metals Digestion	Completed					06/01/22	AG		
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Alachlor	ND	0.072	0.072	ug/L	1	06/02/22	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	06/02/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	06/02/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	06/02/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Methoxychlor	ND	0.096	0.096	ug/L	1	06/02/22	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	06/02/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	65			%	1	06/02/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	53			%	1	06/02/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	67			%	1	06/02/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	100			%	1	06/02/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
PCB-1268	ND	0.048	0.048	ug/L	1	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	102			%	1	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	122			%	1	06/02/22	SC	30 - 150 %	
% TCMX	93			%	1	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	99			%	1	06/02/22	SC	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
Acetone	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/28/22	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/28/22	MH	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/28/22	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	05/28/22	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/28/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	05/28/22	MH	70 - 130 %	
% Bromofluorobenzene	99			%	1	05/28/22	MH	70 - 130 %	
% Dibromofluoromethane	102			%	1	05/28/22	MH	70 - 130 %	
% Toluene-d8	101			%	1	05/28/22	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.4	3.4	ug/L	1	06/03/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.9	1.9	ug/L	1	06/03/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
2-Chlorophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
2-Nitroaniline	ND	4.9	1.9	ug/L	1	06/03/22	WB	SW8270D	
2-Nitrophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3&4-Methylphenol (m&p-cresol)	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.9	2.3	ug/L	1	06/03/22	WB	SW8270D	
3-Nitroaniline	ND	4.9	1.9	ug/L	1	06/03/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
4-Chloroaniline	ND	3.4	2.3	ug/L	1	06/03/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
4-Nitroaniline	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
4-Nitrophenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
Acenaphthene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Acetophenone	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Aniline	ND	3.4	3.4	ug/L	1	06/03/22	WB	SW8270D	
Anthracene	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
Benzidine	ND	4.4	2.9	ug/L	1	06/03/22	WB	SW8270D	
Benzoic acid	ND	24	9.7	ug/L	1	06/03/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
Carbazole	ND	4.9	3.7	ug/L	1	06/03/22	WB	SW8270D	
Dibenzofuran	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
Diethyl phthalate	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Dimethylphthalate	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Fluoranthene	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
Fluorene	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
Hexachloroethane	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
Isophorone	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
Naphthalene	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.9	1.9	ug/L	1	06/03/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/03/22	WB	SW8270D	
Phenol	ND	0.97	0.97	ug/L	1	06/03/22	WB	SW8270D	
Pyrene	ND	4.9	1.7	ug/L	1	06/03/22	WB	SW8270D	
Pyridine	ND	9.7	1.2	ug/L	1	06/03/22	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	58			%	1	06/03/22	WB	15 - 110 %	
% 2-Fluorobiphenyl	36			%	1	06/03/22	WB	30 - 130 %	
% 2-Fluorophenol	17			%	1	06/03/22	WB	15 - 110 %	
% Nitrobenzene-d5	14			%	1	06/03/22	WB	30 - 130 %	3
% Phenol-d5	<10			%	1	06/03/22	WB	15 - 110 %	3
% Terphenyl-d14	60			%	1	06/03/22	WB	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	

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Benzo(ghi)perylene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Hexachlorocyclopentadiene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Nitrobenzene	ND	0.39	0.39	ug/L	1	06/02/22	WB	SW8270D (SIM)	
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Pentachlorophenol	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Phenanthrene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	76			%	1	06/02/22	WB	15 - 110 %	
% 2-Fluorobiphenyl	38			%	1	06/02/22	WB	30 - 130 %	
% 2-Fluorophenol	16			%	1	06/02/22	WB	15 - 110 %	
% Nitrobenzene-d5	14			%	1	06/02/22	WB	30 - 130 %	3
% Phenol-d5	11			%	1	06/02/22	WB	15 - 110 %	3
% Terphenyl-d14	70			%	1	06/02/22	WB	30 - 130 %	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40197

Project ID: 1665 STILLWELL AVENUE
Client ID: EQUIPMENT BLANK

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum	0.011	J	0.020	0.0024	mg/L	1	06/02/22	EK	SW6010D
Arsenic - LDL	ND		0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium	ND		0.010	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium	ND		0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium	0.049		0.010	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium	ND		0.004	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium	ND		0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron	ND		0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury	ND		0.0002	0.00015	mg/L	1	05/31/22	IE	SW7470A
Potassium	ND		0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium	ND		0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese	ND		0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium	ND		0.10	0.1	mg/L	1	06/02/22	EK	SW6010D
Nickel	ND		0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead	ND		0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony	ND		0.003	0.003	mg/L	1	06/07/22	TH	SW7010
Selenium	ND		0.002	0.001	mg/L	0.5	05/31/22	TH	SW7010
Thallium - LDL	ND		0.001	0.001	mg/L	0.5	06/01/22	TH	SW7010
Trivalent Chromium	ND		0.001	0.001	mg/L	1	06/02/22		Calculation
Vanadium	0.001	J	0.010	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc	ND		0.010	0.002	mg/L	1	06/02/22	EK	SW6010D
Chromium, Hexavalent	ND		0.01	0.01	mg/L	1	05/27/22 21:23	AKS	SM3500CRB-11
Total Cyanide	ND		0.010	0.005	mg/L	1	06/01/22	M/C/G	SW9010C/SW9012B
Mercury Digestion	Completed						05/31/22	AB/AB	SW7470A

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB Extraction (LDL)	Completed					06/01/22	B	SW3510C	
Extraction for Pest (LDL)	Completed					06/01/22	B/N	SW3510C	
Semi-Volatile Extraction	Completed					05/31/22	MA/MQ	SW3520C	
Total Metals Digestion	Completed					06/01/22	AG		
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
4,4' -DDT	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Alachlor	ND	0.078	0.078	ug/L	1	06/02/22	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	06/02/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
Chlordane	ND	0.052	0.052	ug/L	1	06/02/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	06/02/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/02/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/02/22	AW	SW8081B	
Methoxychlor	ND	0.10	0.10	ug/L	1	06/02/22	AW	SW8081B	
Toxaphene	ND	0.21	0.21	ug/L	1	06/02/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	54			%	1	06/02/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	52			%	1	06/02/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	78			%	1	06/02/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	82			%	1	06/02/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1221	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1232	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1242	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1248	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1254	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1260	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1262	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
PCB-1268	ND	0.052	0.052	ug/L	1	06/02/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	86			%	1	06/02/22	SC	30 - 150 %	
% DCBP (Confirmation)	80			%	1	06/02/22	SC	30 - 150 %	
% TCMX	83			%	1	06/02/22	SC	30 - 150 %	
% TCMX (Confirmation)	70			%	1	06/02/22	SC	30 - 150 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	05/28/22	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
Acetone	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/28/22	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	05/28/22	MH	SW8260C	

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Isopropylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	05/28/22	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	05/28/22	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	05/28/22	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	05/28/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	05/28/22	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	05/28/22	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	05/28/22	MH	70 - 130 %	
% Bromofluorobenzene	99			%	1	05/28/22	MH	70 - 130 %	
% Dibromofluoromethane	102			%	1	05/28/22	MH	70 - 130 %	
% Toluene-d8	101			%	1	05/28/22	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.4	3.4	ug/L	1	06/03/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.9	1.9	ug/L	1	06/03/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
2-Chlorophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
2-Nitroaniline	ND	4.9	2.0	ug/L	1	06/03/22	WB	SW8270D	
2-Nitrophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	

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3&4-Methylphenol (m&p-cresol)	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.9	2.3	ug/L	1	06/03/22	WB	SW8270D	
3-Nitroaniline	ND	4.9	2.0	ug/L	1	06/03/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
4-Chloroaniline	ND	3.4	2.3	ug/L	1	06/03/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
4-Nitroaniline	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
4-Nitrophenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
Acenaphthene	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Acetophenone	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Aniline	ND	3.4	3.4	ug/L	1	06/03/22	WB	SW8270D	
Anthracene	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
Benzidine	ND	4.4	2.9	ug/L	1	06/03/22	WB	SW8270D	
Benzoic acid	ND	25	9.8	ug/L	1	06/03/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
Carbazole	ND	4.9	3.7	ug/L	1	06/03/22	WB	SW8270D	
Dibenzofuran	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
Diethyl phthalate	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Dimethylphthalate	ND	4.9	1.5	ug/L	1	06/03/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.9	1.3	ug/L	1	06/03/22	WB	SW8270D	
Fluoranthene	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
Fluorene	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
Hexachloroethane	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
Isophorone	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
Naphthalene	ND	4.9	1.4	ug/L	1	06/03/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.9	1.6	ug/L	1	06/03/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.9	1.9	ug/L	1	06/03/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.5	2.5	ug/L	1	06/03/22	WB	SW8270D	
Phenol	ND	0.98	0.98	ug/L	1	06/03/22	WB	SW8270D	
Pyrene	ND	4.9	1.7	ug/L	1	06/03/22	WB	SW8270D	
Pyridine	ND	9.8	1.2	ug/L	1	06/03/22	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	55			%	1	06/03/22	WB	15 - 110 %	
% 2-Fluorobiphenyl	35			%	1	06/03/22	WB	30 - 130 %	
% 2-Fluorophenol	16			%	1	06/03/22	WB	15 - 110 %	
% Nitrobenzene-d5	16			%	1	06/03/22	WB	30 - 130 %	3
% Phenol-d5	23			%	1	06/03/22	WB	15 - 110 %	
% Terphenyl-d14	64			%	1	06/03/22	WB	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: EQUIPMENT BLANK

Phoenix I.D.: CL40197

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Benzo(ghi)perylene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Hexachlorocyclopentadiene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Nitrobenzene	ND	0.39	0.39	ug/L	1	06/02/22	WB	SW8270D (SIM)	
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Pentachlorophenol	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
Phenanthrene	ND	0.49	0.49	ug/L	1	06/02/22	WB	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	75			%	1	06/02/22	WB	15 - 110 %	
% 2-Fluorobiphenyl	36			%	1	06/02/22	WB	30 - 130 %	
% 2-Fluorophenol	17			%	1	06/02/22	WB	15 - 110 %	
% Nitrobenzene-d5	15			%	1	06/02/22	WB	30 - 130 %	3
% Phenol-d5	31			%	1	06/02/22	WB	15 - 110 %	
% Terphenyl-d14	68			%	1	06/02/22	WB	30 - 130 %	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40198

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 PFAS FB-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (21)	Completed					06/06/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.92	0.384	ng/L	1	06/07/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.81	0.473	ng/L	1	06/07/22	***	EPA 537m	C
NEtFOSAA	ND	1.92	0.536	ng/L	1	06/07/22	***	EPA 537m	C
NMeFOSAA	ND	1.92	0.509	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.92	0.552	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.92	0.399	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.92	0.285	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	1.92	0.283	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.92	0.504	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.92	0.747	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	1.92	0.611	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.92	0.270	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	1.92	0.453	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	1.92	1.57	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.92	0.552	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.92	0.281	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	1.92	0.511	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	1.92	0.435	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.92	0.511	ng/L	1	06/07/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.92	1.32	ng/L	1	06/07/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.92	0.632	ng/L	1	06/07/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	62.3			%	1	06/07/22	***	25 - 150 %	C
% d5-NEtFOSA	61.0			%	1	06/07/22	***	25 - 150 %	C
% M2-6:2FTS	124			%	1	06/07/22	***	25 - 200 %	C

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SB-1 PFAS FB-2

Phoenix I.D.: CL40198

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M2-8:2FTS	109			%	1	06/07/22	***	25 - 200 %	C
% M2PFTeDA	38.3			%	1	06/07/22	***	10 - 150 %	C
% M3PFBS	95.7			%	1	06/07/22	***	25 - 150 %	C
% M3PFHxS	86.5			%	1	06/07/22	***	25 - 150 %	C
% M4PFHpA	80.7			%	1	06/07/22	***	25 - 150 %	C
% M5PFHxA	84.8			%	1	06/07/22	***	25 - 150 %	C
% M5PFPeA	87.0			%	1	06/07/22	***	25 - 150 %	C
% M6PFDA	77.7			%	1	06/07/22	***	25 - 150 %	C
% M7PFUdA	74.6			%	1	06/07/22	***	25 - 150 %	C
% M8FOSA	45.2			%	1	06/07/22	***	10 - 150 %	C
% M8PFOA	79.4			%	1	06/07/22	***	25 - 150 %	C
% M8PFOS	77.9			%	1	06/07/22	***	25 - 150 %	C
% M9PFNA	85.1			%	1	06/07/22	***	25 - 150 %	C
% MPFBA	86.2			%	1	06/07/22	***	25 - 150 %	C
% MPFDoA	58.8			%	1	06/07/22	***	25 - 150 %	C

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 14, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/26/22	10:20
Location Code:	RSK-ENV	Received by:	B	05/27/22	18:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL40162
Phoenix ID: CL40199

Project ID: 1665 STILLWELL AVENUE
Client ID: TB-1 HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed					05/26/22		SW5035A	1
Volatiles									
1,1,1,2-Tetrachloroethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,1,1-Trichloroethane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,1,2-Trichloroethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,1-Dichloroethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,1-Dichloroethene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,1-Dichloropropene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2,3-Trichloropropane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2-Dibromoethane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2-Dichlorobenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2-Dichloroethane	ND	25	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,2-Dichloropropane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,3-Dichlorobenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
1,3-Dichloropropane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
1,4-Dichlorobenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
2,2-Dichloropropane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	
2-Chlorotoluene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C	
2-Hexanone	ND	1300	250	ug/Kg	50	05/31/22	JLI	SW8260C	
2-Isopropyltoluene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C	1

Project ID: 1665 STILLWELL AVENUE
Client ID: TB-1 HL

Phoenix I.D.: CL40199

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	250	ug/Kg	50	05/31/22	JLI	SW8260C
Acetone	ND	250	250	ug/Kg	50	05/31/22	JLI	SW8260C
Acrylonitrile	ND	500	50	ug/Kg	50	05/31/22	JLI	SW8260C
Benzene	ND	60	25	ug/Kg	50	05/31/22	JLI	SW8260C
Bromobenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Bromochloromethane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Bromodichloromethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Bromoform	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Bromomethane	ND	250	100	ug/Kg	50	05/31/22	JLI	SW8260C
Carbon Disulfide	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Carbon tetrachloride	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Chlorobenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Chloroethane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Chloroform	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Chloromethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Dibromochloromethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Dibromomethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Dichlorodifluoromethane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Ethylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Hexachlorobutadiene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Isopropylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
m&p-Xylene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Methyl Ethyl Ketone	ND	120	120	ug/Kg	50	05/31/22	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	500	50	ug/Kg	50	05/31/22	JLI	SW8260C
Methylene chloride	ND	100	100	ug/Kg	50	05/31/22	JLI	SW8260C
Naphthalene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
n-Butylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
n-Propylbenzene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
o-Xylene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
p-Isopropyltoluene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
sec-Butylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Styrene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
tert-Butylbenzene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Tetrachloroethene	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	130	ug/Kg	50	05/31/22	JLI	SW8260C
Toluene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
trans-1,2-Dichloroethene	ND	190	25	ug/Kg	50	05/31/22	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	130	ug/Kg	50	05/31/22	JLI	SW8260C
Trichloroethene	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Trichlorofluoromethane	ND	250	50	ug/Kg	50	05/31/22	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	25	ug/Kg	50	05/31/22	JLI	SW8260C
Vinyl chloride	ND	25	25	ug/Kg	50	05/31/22	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (50x)	95			%	50	05/31/22	JLI	70 - 130 %
% Bromofluorobenzene (50x)	102			%	50	05/31/22	JLI	70 - 130 %

Project ID: 1665 STILLWELL AVENUE
Client ID: TB-1 HL

Phoenix I.D.: CL40199

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (50x)	93			%	50	05/31/22	JLI	70 - 130 %
% Toluene-d8 (50x)	91			%	50	05/31/22	JLI	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 14, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Tuesday, June 14, 2022

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCL40162 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL40162	$PFAS-SM21	Perfluorooctanoic acid (PFOA)	NY / 375-PFAS / Unrestricted Use Soil	0.789	0.279	0.66	0.66	ng/g
CL40162	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	35.5	0.39	30	30	mg/Kg
CL40164	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	34.7	0.36	30		mg/Kg
CL40164	NI-SM	Nickel	NY / 375-6.8 Metals / Residential	148	3.6	140	140	mg/Kg
CL40164	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	148	3.6	30	30	mg/Kg
CL40165	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	30.9	0.41	30	30	mg/Kg
CL40166	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	39.6	0.39	30	30	mg/Kg
CL40167	$PFAS-SM21	Perfluorooctanesulfonic Acid (PFOS)	NY / 375-PFAS / Unrestricted Use Soil	1.84	0.251	0.88	0.88	ng/g
CL40167	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	31.8	0.35	30		mg/Kg
CL40167	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	104	0.35	30	30	mg/Kg
CL40168	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	39.1	0.35	30		mg/Kg
CL40168	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	64.9	0.35	30	30	mg/Kg
CL40169	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	66.5	0.31	30	30	mg/Kg
CL40171	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	51.9	0.7	50	50	mg/kg
CL40171	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.52	0.03	0.18	0.18	mg/Kg
CL40171	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	67.5	0.7	63	63	mg/Kg
CL40172	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	40.7	0.32	30		mg/Kg
CL40172	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	73.1	0.32	30	30	mg/Kg
CL40173	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	30.4	0.35	30		mg/Kg
CL40173	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	95.7	0.35	30	30	mg/Kg
CL40174	$DIOX-SM8270	1,4-dioxane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	760	100	100	ug/Kg
CL40174	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	54.8	0.7	50	50	mg/kg
CL40174	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	37.9	0.36	30	30	mg/Kg
CL40174	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	309	0.7	63	63	mg/Kg
CL40174	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	309	0.7	109	109	mg/Kg
CL40175	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	60.3	0.38	30	30	mg/Kg
CL40176	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	70.0	0.33	30	30	mg/Kg
CL40177	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.3	2.3	3.3	3.3	ug/Kg
CL40177	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	35.4	0.37	30	30	mg/Kg
CL40177	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	181	0.7	63	63	mg/Kg
CL40177	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	198	0.7	109	109	mg/Kg

Tuesday, June 14, 2022

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCL40162 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL40178	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	57.3	0.37	30	30	mg/Kg
CL40179	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	109	0.38	30	30	mg/Kg
CL40180	$DIOX-SM8270	1,4-dioxane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	760	100	100	ug/Kg
CL40180	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	2.72	0.37	2.5	2.5	mg/Kg
CL40180	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.72	0.37	2.5	2.5	mg/Kg
CL40180	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	36.7	0.37	30	30	mg/Kg
CL40180	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	152	0.7	63	63	mg/Kg
CL40180	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	272	0.7	109	109	mg/Kg
CL40181	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	59.5	0.33	30	30	mg/Kg
CL40182	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	59.3	0.30	30	30	mg/Kg
CL40183	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	70.9	0.8	50	50	mg/kg
CL40183	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.28	0.03	0.18	0.18	mg/Kg
CL40183	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	76.9	0.40	30	30	mg/Kg
CL40183	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	200	0.8	63	63	mg/Kg
CL40183	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	202	0.8	109	109	mg/Kg
CL40184	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	42.7	0.35	30	30	mg/Kg
CL40185	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	47.5	0.36	30	30	mg/Kg
CL40187	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	88.4	0.37	30	30	mg/Kg
CL40188	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	101	0.37	30	30	mg/Kg
CL40189	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.7	2.3	3.3	3.3	ug/Kg
CL40189	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.27	0.03	0.18	0.18	mg/Kg
CL40189	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	32.9	0.40	30	30	mg/Kg
CL40189	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	191	0.8	63	63	mg/Kg
CL40189	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	220	0.8	109	109	mg/Kg
CL40190	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	56.5	0.32	30	30	mg/Kg
CL40191	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.3	2.1	3.3	3.3	ug/Kg
CL40191	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	85.2	0.36	30	30	mg/Kg
CL40191	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	131	0.7	63	63	mg/Kg
CL40192	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	47.0	0.38	30		mg/Kg
CL40192	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	125	0.38	30	30	mg/Kg
CL40193	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	50.9	0.36	30	30	mg/Kg

Tuesday, June 14, 2022

Criteria: NY: 375, 375COM, 375RS

State: NY

Sample Criteria Exceedances Report

GCL40162 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

June 14, 2022

SDG I.D.: GCL40162

The samples in this delivery group were received at 2.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 2.5° C Pg 1 of 4

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[X] Phone: 718-438-2200 ext 201
[ ] Fax:
[X] Email: office@rskenvironmental.com

Customer: RSK ENVIRONMENTAL LLC
Address: 132-02 89th AVENUE, #222
RICHMOND HILL, NY 11418

Project: 1665 STILLWELL AVENUE Project P.O:
Report to: RSK
Invoice to: RSK
QUOTE # :

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Bradley Moore Date: 5/26/22

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260 (VOCs)	8270 (SVOCs)	PFAS	1,4 Dioxane	PCB, Pesticides	Hex-Cr, Tot-Cr, TAL Metals	Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (4) oz	GL Soil container (8) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [1] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
401162	SB-1 (0'-2')	S	5/26/22	12:00	✓	✓	✓	✓	✓	✓	✓	✓		1	1			1					
401163	SB-1 (6'-8')			12:10										1	1			1					
401164	SB-1 (14'-16')			12:15										1	1			1					
401165	SB-2 (0-2')			10:50										1	1			1					
401166	SB-2 (6'-8')			10:55										1	1			1					
401167	SB-2 (14'-16')			11am										1	1			1					
401168	SB-3 (0'-2')			1:15pm										1	1			1					
401169	SB-3 (6'-8')			1:20										1	1			1					
401170	SB-3 (14'-16')			1:30										1	1			1					
401171	SB-4 (0'-2')			12:35										1	1			1					
401172	SB-4 (6'-8')			12:40										1	1			1					

Relinquished by:	Accepted by:	Date:	Time:
Bradley Moore		5-27-22	12:47
		5/27	1823

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] Impact to GW soil screen Criteria
[ ] GW Criteria

NY
[ ] TOGS GW
[ ] CP-51 SOIL
[X] 375SCO Unrestricted Soil
[ ] 375SCO Residential Soil
[X] 375SCO Residential Restricted Soil
[X] 375SCO Commercial Soil
[ ] 375SCO Industrial Soil
[ ] Subpart 5 DW

PA
[ ] Clean Fill Limits
[ ] PA-GW
[ ] Reg Fill Limits
[ ] PA Soil Restricted
[ ] PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:

Data Format:
[X] Phoenix Std Report [ ] EQuIS
[X] Excel [ ] NJ Hazsite EDD
[X] PDF [ ] NY EZ EDD
[ ] GIS/Key [ ] Other

Data Package:
[ ] NJ Reduced Deliv. * [ ] Other
[X] NY Enhanced (ASP B) *

PEL-111 Rev 10/2021

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 2.5C Pg 2 of 4

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: RSK
Address:

Project: 1665 STILLWELL AVENUE Project P.O:
Report to: RSK
Invoice to: RSK
QUOTE # :

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Date: 5/26/22

Client Sample - Information - Identification

Analysis Request

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260 (VOCs)	8270 (SVOCs)	PFAS	1,4 Dioxane	PCB, Pesticides	TAL Metals	Hex. Cr, Tot. Cr, Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] HCl	PL As is [ ] 250ml [ ] As is [ ] H2SO4	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NaOH 250ml [ ] 250ml [ ] 500ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
40173	SB-4 (14'-16')	S	5/26/22	12:45	✓	✓	✓	✓	✓	✓	✓	✓	1	1	1			1					
40174	SB-5 (0'-2')			9:20am									1	1	1			1					
40175	SB-5 (6'-8')			9:30									1	1	1			1					
40176	SB-5 (14'-16')			9:40									1	1	1			1					
40177	SB-6 (0'-2')			10:10									1	1	1			1					
40178	SB-6 (6'-8')			10:15									1	1	1			1					
40179	SB-6 (14'-16')			10:20									1	1	1			1					
40180	SB-7 (0'-2')			2:16									1	1	1			1					
40181	SB-7 (6'-8')			2:20									1	1	1			1					
40182	SB-7 (14'-16')			2:25									1	1	1			1					
40183	SB-8 (0'-2')			1:35									1	1	1			1					

Relinquished by:	Accepted by:	Date:	Time:
Bradley Moore		5-27-22	2:47
		5/27	1823

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☐ TOGS GW
☐ CP-51 SOIL
☑ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☑ 375SCO Residential Restricted Soil
☑ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:

Data Format:
☑ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD
☐ GIS/Key ☐ Other

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☑ NY Enhanced (ASP B) *

PEL-111 Rev 10/2021

Cooler: Yes [X] No [ ]
Coolant: IPK [Y] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 2.5° C Pg 3 of 4

Contact Options:
[ ] Phone:
[ ] Fax:
[ ] Email:

Customer: RSK
Address:

Project: 1665 STILLWELL AVE
Report to: RSK
Invoice to: RSK
QUOTE # :

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Date: 5/26/22

Client Sample - Information - Identification

Analysis Request

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260 (VOC)	8270 (SVOC)	PFAS	1,4 Dioxane	TAL Metals	PCBs + Pesticides	Hex. Cr., Tot. Cr., Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [1] 250ml [1] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
40184	SB-8 (6'-8')	S	5/26/22	1:40	✓	✓	✓	✓	✓	✓	✓	✓	1	1	1			1						
40185	SB-8 (14'-16')			1:50									1	1	1			1						
40186	SB-9 (0'-2')			8:50									1	1	1			1						
40187	SB-9 (6'-8')			9:05									1	1	1			1						
40188	SB-9 (14'-16')			9:15									1	1	1			1						
40189	SB-10 (0'-2')			12:55									1	1	1			1						
40190	SB-10 (6'-8')			1:00									1	1	1			1						
40191	SB-10 (14'-16')			1:10			✓	✓					1	1	1			1						
40192	FD-1			10:20									1	1										
40193	FD-2	↓	↓	11am	↓	↓	✓		↓	↓	↓	↓	1	1										

Relinquished by:	Accepted by:	Date:	Time:
Bradley Moore		5-27-22	1:24
		5/27	1823

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] Impact to GW soil screen Criteria
[ ] GW Criteria

NY
[ ] TOGS GW
[ ] CP-51 SOIL
[✓] 375SCO Unrestricted Soil
[ ] 375SCO Residential Soil
[✓] 375SCO Residential Restricted Soil
[✓] 375SCO Commercial Soil
[ ] 375SCO Industrial Soil
[ ] Subpart 5 DW

PA
[ ] Clean Fill Limits
[ ] PA-GW
[ ] Reg Fill Limits
[ ] PA Soil Restricted
[ ] PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:
No PFAS / 1,4 Dioxane Analysis for FD-1 & FD-2.

Data Format:
[✓] Phoenix Std Report
[✓] Excel
[✓] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD
[ ] Other

Data Package:
[ ] NJ Reduced Deliv. *
[✓] NY Enhanced (ASP B) *
[ ] Other

PEL-111 Rev 10/2021

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp 2.5 °C Pg 4 of 4

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: RSK
Address:

Project: 1665 STILLWELL AVENUE Project P.O:
Report to: RSK
Invoice to: RSK.
QUOTE # :

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Date: 5/26/22

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260 (VOCs)	8270 (SVOCs)	PFAS	1,4 Dioxane	TAL Metals	PCB Pesticides	Hex Cr, Tot. Cr, Cyanide	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz (4) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
40194	SB-6 PFAS FB-1	L	5/26	10:20			✓										2						
~~40195~~	SB-1 MS-1	S		12:35	✓	✓	●	●	✓	✓	✓	✓	✓	1	1								
40164	SB-1 MSD-1	S		12:30										1	1								
~~40196~~	SB-8 MS-2	S		1:50										1	1								
40185	SB-8 MSD-2	S		1:50	✓	✓			✓	✓	✓	✓		1	1								
40195	TB-1 LL	L			✓									1									
40196	FB-1	L		2:45	✓	✓			✓	✓	✓	✓	✓	1	1		3	4	1		1	1	
40197	EQUIPMENT BLANK	L	↓	3:00	✓	✓			✓	✓	✓	✓					3	4	1		1	1	
40198	SB-1 PFAS FB-2	L	↓	12:10			✓												2				
40199	TB-1 HL																						

Relinquished by:	Accepted by:	Date:	Time:
Bradley Moore		5-27-22	1244
		5/27	1823

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☐ TOGS GW
☐ CP-51 SOIL
☑ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☑ 375SCO Residential Restricted Soil
☑ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:
No PFAS / 1,4 Dioxane analysis for MS, MSD and field blank samples.

Data Format:
☑ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD
☐ GIS/Key ☐ Other

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☑ NY Enhanced (ASP B) *

PEL-111 Rev 10/2021

Technical Report
for
Emerging Contaminants

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 06/13/2022
Client Project ID: SB-1-SB-10
York Project (SDG) No.: 22F0077

Report Date: 06/13/2022
Client Project ID: SB-1-SB-10
York Project (SDG) No.: 22F0077

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 01, 2022 and listed below. The project was identified as your project: **SB-1-SB-10**.

The analyses were conducted utilizing appropriate EPA methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

Please contact Client Services at 203.325.1371 with any questions regarding this report or e-mail clientservices@yorklab.com.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22F0077-01	SB-1 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-02	SB-1 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-03	SB-1 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-04	SB-2 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-05	SB-2 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-06	SB-2 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-07	SB-3 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-08	SB-3 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-09	SB-3 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-10	SB-4 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-11	SB-4 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-12	SB-4 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-13	SB-5 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-14	SB-5 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-15	SB-5 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-16	SB-6 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-17	SB-6 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-18	SB-6 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-19	SB-7 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-20	SB-7 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-21	SB-7 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-22	SB-8 (0-2 ft)	Soil	05/26/2022	06/01/2022

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22F0077-23	SB-8 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-24	SB-8 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-25	SB-9 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-26	SB-9 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-27	SB-9 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-28	SB-10 (0-2 ft)	Soil	05/26/2022	06/01/2022
22F0077-29	SB-10 (6-8 ft)	Soil	05/26/2022	06/01/2022
22F0077-30	SB-10 (14-16 ft)	Soil	05/26/2022	06/01/2022
22F0077-31	SB-6 PFAS FB-1	Water	05/26/2022	06/01/2022
22F0077-32	SB-1 PFAS FB-2	Water	05/26/2022	06/01/2022

General Notes for York Project (SDG) No.: 22F0077

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 06/13/2022

Sample Information

Client Sample ID: SB-1 (0-2 ft) **York Sample ID:** 22F0077-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:00 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.789**		**0**	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.279	EPA 537m	06/07/2022 12:16 06/09/2022 16:55	WL

Sample Information

Client Sample ID: SB-1 (0-2 ft) **York Sample ID:** 22F0077-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:00 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*98.2 %*		*25-150*					
	Surrogate: M5PFHxA	*85.3 %*		*25-150*					
	Surrogate: M4PFHpA	*69.3 %*		*25-150*					
	Surrogate: M3PFHxS	*75.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*74.2 %*		*25-150*					
	Surrogate: M6PFDA	*62.8 %*		*25-150*					
	Surrogate: M7PFUdA	*59.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.2 %*		*25-150*					
	Surrogate: M2PFTeDA	*61.1 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*88.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*69.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*84.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*56.0 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*74.2 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*75.8 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*109 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*93.7 %*		*25-200*					
	Surrogate: M9PFNA	*67.2 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**84.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-1 (6-8 ft) **York Sample ID:** 22F0077-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:10 pm	06/01/2022

Sample Information

Client Sample ID: SB-1 (6-8 ft) **York Sample ID:** 22F0077-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:10 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.296	EPA 537m	06/07/2022 12:16 06/09/2022 17:08	WL

Sample Information

Client Sample ID: SB-1 (6-8 ft) **York Sample ID:** 22F0077-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:10 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*85.8 %*		*25-150*					
	Surrogate: M5PFHxA	*77.3 %*		*25-150*					
	Surrogate: M4PFHpA	*69.8 %*		*25-150*					
	Surrogate: M3PFHxS	*72.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*77.9 %*		*25-150*					
	Surrogate: M6PFDA	*50.1 %*		*25-150*					
	Surrogate: M7PFUdA	*57.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*59.8 %*		*25-150*					
	Surrogate: M2PFTeDA	*51.3 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*88.0 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*56.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*84.5 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.8 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*65.2 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*72.2 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*82.7 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*74.6 %*		*25-200*					
	Surrogate: M9PFNA	*63.7 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**83.6**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-1 (14-16 ft) **York Sample ID:** 22F0077-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:15 pm	06/01/2022

Sample Information

Client Sample ID: SB-1 (14-16 ft) **York Sample ID:** 22F0077-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:15 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 17:21	WL

Sample Information

Client Sample ID: SB-1 (14-16 ft) **York Sample ID:** 22F0077-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:15 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*91.8 %*		*25-150*					
	Surrogate: M5PFHxA	*80.5 %*		*25-150*					
	Surrogate: M4PFHpA	*75.5 %*		*25-150*					
	Surrogate: M3PFHxS	*92.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*78.8 %*		*25-150*					
	Surrogate: M6PFDA	*68.1 %*		*25-150*					
	Surrogate: M7PFUdA	*68.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.4 %*		*25-150*					
	Surrogate: M2PFTeDA	*46.9 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*88.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*78.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*84.5 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*59.3 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*70.2 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*67.9 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*67.5 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*82.7 %*		*25-200*					
	Surrogate: M9PFNA	*77.2 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**93.6**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-2 (0-2 ft) **York Sample ID:** 22F0077-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:50 am	06/01/2022

Sample Information

Client Sample ID: SB-2 (0-2 ft) **York Sample ID:** 22F0077-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:50 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 12:16 06/09/2022 17:34	WL

Sample Information

Client Sample ID: SB-2 (0-2 ft) **York Sample ID:** 22F0077-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:50 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*87.5 %*		*25-150*					
	Surrogate: M5PFHxA	*82.1 %*		*25-150*					
	Surrogate: M4PFHpA	*69.8 %*		*25-150*					
	Surrogate: M3PFHxS	*89.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.2 %*		*25-150*					
	Surrogate: M6PFDA	*59.1 %*		*25-150*					
	Surrogate: M7PFUdA	*58.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*61.6 %*		*25-150*					
	Surrogate: M2PFTeDA	*53.2 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*89.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*75.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*84.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.4 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*69.0 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*69.6 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*87.0 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*73.2 %*		*25-200*					
	Surrogate: M9PFNA	*74.0 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**87.9**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-2 (6-8 ft) **York Sample ID:** 22F0077-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:55 am	06/01/2022

Sample Information

Client Sample ID: SB-2 (6-8 ft) **York Sample ID:** 22F0077-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:55 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**0.672**		**0**	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.265	EPA 537m	06/07/2022 12:16 06/09/2022 17:47	WL

Sample Information

Client Sample ID: SB-2 (6-8 ft) **York Sample ID:** 22F0077-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:55 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*84.8 %*		*25-150*					
	Surrogate: M5PFHxA	*76.3 %*		*25-150*					
	Surrogate: M4PFHpA	*73.2 %*		*25-150*					
	Surrogate: M3PFHxS	*82.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*62.6 %*		*25-150*					
	Surrogate: M6PFDA	*53.2 %*		*25-150*					
	Surrogate: M7PFUdA	*54.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*51.1 %*		*25-150*					
	Surrogate: M2PFTeDA	*47.7 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*80.5 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*67.2 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*76.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*56.5 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*54.2 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*53.5 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*57.8 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*78.3 %*		*25-200*					
	Surrogate: M9PFNA	*63.9 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**91.2**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-2 (14-16 ft) **York Sample ID:** 22F0077-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 11:00 am	06/01/2022

Sample Information

Client Sample ID: SB-2 (14-16 ft) **York Sample ID:** 22F0077-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 11:00 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**1.84**		**0**	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.251	EPA 537m	06/07/2022 12:16 06/09/2022 18:13	WL

Sample Information

Client Sample ID: SB-2 (14-16 ft) **York Sample ID:** 22F0077-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 11:00 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*89.2 %*		*25-150*					
	Surrogate: M5PFHxA	*82.2 %*		*25-150*					
	Surrogate: M4PFHpA	*76.9 %*		*25-150*					
	Surrogate: M3PFHxS	*81.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*72.5 %*		*25-150*					
	Surrogate: M6PFDA	*54.3 %*		*25-150*					
	Surrogate: M7PFUdA	*59.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*62.0 %*		*25-150*					
	Surrogate: M2PFTeDA	*52.0 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*89.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*67.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*83.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*56.5 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*60.6 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*79.0 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*90.3 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*87.5 %*		*25-200*					
	Surrogate: M9PFNA	*64.4 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**92.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-3 (0-2 ft) **York Sample ID:** 22F0077-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:15 pm	06/01/2022

Sample Information

Client Sample ID: SB-3 (0-2 ft) **York Sample ID:** 22F0077-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:15 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 18:26	WL

Sample Information

Client Sample ID: SB-3 (0-2 ft) **York Sample ID:** 22F0077-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:15 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*87.9 %*		*25-150*					
	Surrogate: M5PFHxA	*74.2 %*		*25-150*					
	Surrogate: M4PFHpA	*70.0 %*		*25-150*					
	Surrogate: M3PFHxS	*80.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*65.6 %*		*25-150*					
	Surrogate: M6PFDA	*52.3 %*		*25-150*					
	Surrogate: M7PFUdA	*58.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*55.1 %*		*25-150*					
	Surrogate: M2PFTeDA	*46.0 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*81.8 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*71.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*77.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*49.3 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*61.0 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*67.6 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*72.5 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*57.0 %*		*25-200*					
	Surrogate: M9PFNA	*70.6 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**94.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-3 (6-8 ft) **York Sample ID:** 22F0077-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:20 pm	06/01/2022

Sample Information

Client Sample ID: SB-3 (6-8 ft) **York Sample ID:** 22F0077-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:20 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.256	EPA 537m	06/07/2022 12:16 06/09/2022 18:39	WL

Sample Information

Client Sample ID: SB-3 (6-8 ft) **York Sample ID:** 22F0077-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:20 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*101 %*		*25-150*					
	Surrogate: M5PFHxA	*83.0 %*		*25-150*					
	Surrogate: M4PFHpA	*72.5 %*		*25-150*					
	Surrogate: M3PFHxS	*90.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*74.5 %*		*25-150*					
	Surrogate: M6PFDA	*54.9 %*		*25-150*					
	Surrogate: M7PFUdA	*56.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*53.9 %*		*25-150*					
	Surrogate: M2PFTeDA	*43.2 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*92.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*57.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*84.4 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*52.3 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*49.9 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*51.6 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*80.1 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*71.0 %*		*25-200*					
	Surrogate: M9PFNA	*70.5 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**94.0**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-3 (14-16 ft) **York Sample ID:** 22F0077-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:30 pm	06/01/2022

Sample Information

Client Sample ID: SB-3 (14-16 ft) **York Sample ID:** 22F0077-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:30 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.533**		**0**	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.301	EPA 537m	06/07/2022 12:16 06/09/2022 18:52	WL

Sample Information

Client Sample ID: SB-3 (14-16 ft) **York Sample ID:** 22F0077-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:30 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*82.1 %*		*25-150*					
	Surrogate: M5PFHxA	*71.7 %*		*25-150*					
	Surrogate: M4PFHpA	*68.1 %*		*25-150*					
	Surrogate: M3PFHxS	*81.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*64.3 %*		*25-150*					
	Surrogate: M6PFDA	*46.2 %*		*25-150*					
	Surrogate: M7PFUdA	*53.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*58.2 %*		*25-150*					
	Surrogate: M2PFTeDA	*61.7 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*85.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*78.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*43.6 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*60.1 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*50.3 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*77.3 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*62.9 %*		*25-200*					
	Surrogate: M9PFNA	*79.2 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**81.6**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-4 (0-2 ft) **York Sample ID:** 22F0077-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:35 pm	06/01/2022

Sample Information

Client Sample ID: SB-4 (0-2 ft) **York Sample ID:** 22F0077-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:35 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.443**		**0**	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.290	EPA 537m	06/07/2022 12:16 06/09/2022 19:05	WL

Sample Information

Client Sample ID: SB-4 (0-2 ft) **York Sample ID:** 22F0077-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:35 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*83.1 %*		*25-150*					
	Surrogate: M5PFHxA	*79.1 %*		*25-150*					
	Surrogate: M4PFHpA	*72.8 %*		*25-150*					
	Surrogate: M3PFHxS	*72.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*69.5 %*		*25-150*					
	Surrogate: M6PFDA	*60.2 %*		*25-150*					
	Surrogate: M7PFUdA	*56.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*54.1 %*		*25-150*					
	Surrogate: M2PFTeDA	*58.9 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*84.5 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*80.0 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*47.0 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*57.6 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*66.3 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*87.1 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*62.2 %*		*25-200*					
	Surrogate: M9PFNA	*71.4 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**85.4**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-4 (6-8 ft) **York Sample ID:** 22F0077-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:40 pm	06/01/2022

Sample Information

Client Sample ID: SB-4 (6-8 ft) **York Sample ID:** 22F0077-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:40 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 12:16 06/09/2022 19:18	WL

Sample Information

Client Sample ID: SB-4 (6-8 ft) **York Sample ID:** 22F0077-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:40 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*95.0 %*		*25-150*					
	Surrogate: M5PFHxA	*82.7 %*		*25-150*					
	Surrogate: M4PFHpA	*81.9 %*		*25-150*					
	Surrogate: M3PFHxS	*92.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*69.6 %*		*25-150*					
	Surrogate: M6PFDA	*61.3 %*		*25-150*					
	Surrogate: M7PFUdA	*60.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*53.6 %*		*25-150*					
	Surrogate: M2PFTeDA	*48.5 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*89.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*66.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*87.7 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*48.8 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*58.0 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*55.5 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*72.4 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*75.9 %*		*25-200*					
	Surrogate: M9PFNA	*70.5 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**93.9**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-4 (14-16 ft) **York Sample ID:** 22F0077-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:45 pm	06/01/2022

Sample Information

Client Sample ID: SB-4 (14-16 ft) **York Sample ID:** 22F0077-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:45 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.258	EPA 537m	06/07/2022 12:16 06/09/2022 19:31	WL

Sample Information

Client Sample ID: SB-4 (14-16 ft) **York Sample ID:** 22F0077-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:45 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*95.1 %*		*25-150*					
	Surrogate: M5PFHxA	*78.8 %*		*25-150*					
	Surrogate: M4PFHpA	*72.2 %*		*25-150*					
	Surrogate: M3PFHxS	*80.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*71.5 %*		*25-150*					
	Surrogate: M6PFDA	*63.3 %*		*25-150*					
	Surrogate: M7PFUdA	*56.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*49.5 %*		*25-150*					
	Surrogate: M2PFTeDA	*50.8 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*89.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*73.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*80.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.1 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*61.5 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*60.2 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*81.7 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*62.3 %*		*25-200*					
	Surrogate: M9PFNA	*78.4 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**93.7**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-5 (0-2 ft) **York Sample ID:** 22F0077-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:20 am	06/01/2022

Sample Information

Client Sample ID: SB-5 (0-2 ft) **York Sample ID:** 22F0077-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:20 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**0.305**		**0**	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.299	EPA 537m	06/07/2022 12:16 06/09/2022 19:44	WL

Sample Information

Client Sample ID: SB-5 (0-2 ft) **York Sample ID:** 22F0077-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:20 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*85.2 %*		*25-150*					
	Surrogate: M5PFHxA	*71.6 %*		*25-150*					
	Surrogate: M4PFHpA	*65.8 %*		*25-150*					
	Surrogate: M3PFHxS	*74.1 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*70.9 %*		*25-150*					
	Surrogate: M6PFDA	*48.1 %*		*25-150*					
	Surrogate: M7PFUdA	*52.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*52.8 %*		*25-150*					
	Surrogate: M2PFTeDA	*59.9 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*77.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*64.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*73.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*47.3 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*49.6 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*62.9 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*104 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*75.2 %*		*25-200*					
	Surrogate: M9PFNA	*74.9 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**82.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-5 (6-8 ft) **York Sample ID:** 22F0077-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:30 am	06/01/2022

Sample Information

Client Sample ID: SB-5 (6-8 ft) **York Sample ID:** 22F0077-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:30 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.261	EPA 537m	06/07/2022 12:16 06/09/2022 19:57	WL

Sample Information

Client Sample ID: SB-5 (6-8 ft) **York Sample ID:** 22F0077-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:30 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*90.7 %*		*25-150*					
	Surrogate: M5PFHxA	*80.2 %*		*25-150*					
	Surrogate: M4PFHpA	*67.8 %*		*25-150*					
	Surrogate: M3PFHxS	*91.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*66.3 %*		*25-150*					
	Surrogate: M6PFDA	*56.6 %*		*25-150*					
	Surrogate: M7PFUdA	*58.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*51.4 %*		*25-150*					
	Surrogate: M2PFTeDA	*34.9 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*84.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*68.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*80.7 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*52.7 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*55.3 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*62.8 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*90.1 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*63.1 %*		*25-200*					
	Surrogate: M9PFNA	*76.7 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**92.8**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-5 (14-16 ft) **York Sample ID:** 22F0077-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:40 am	06/01/2022

Sample Information

Client Sample ID: SB-5 (14-16 ft) **York Sample ID:** 22F0077-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:40 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.245	EPA 537m	06/07/2022 12:16 06/09/2022 20:10	WL

Sample Information

Client Sample ID: SB-5 (14-16 ft) **York Sample ID:** 22F0077-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:40 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*97.4 %*		*25-150*					
	Surrogate: M5PFHxA	*75.1 %*		*25-150*					
	Surrogate: M4PFHpA	*76.4 %*		*25-150*					
	Surrogate: M3PFHxS	*80.2 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*68.5 %*		*25-150*					
	Surrogate: M6PFDA	*60.8 %*		*25-150*					
	Surrogate: M7PFUdA	*61.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*56.3 %*		*25-150*					
	Surrogate: M2PFTeDA	*67.6 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*84.7 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*78.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*79.7 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*52.9 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*62.3 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*60.2 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*81.8 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*78.5 %*		*25-200*					
	Surrogate: M9PFNA	*72.7 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**94.9**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-6 (0-2 ft) **York Sample ID:** 22F0077-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:10 am	06/01/2022

Sample Information

Client Sample ID: SB-6 (0-2 ft) **York Sample ID:** 22F0077-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:10 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 12:16 06/09/2022 20:36	WL

Sample Information

Client Sample ID: SB-6 (0-2 ft) **York Sample ID:** 22F0077-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:10 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*98.1 %*		*25-150*					
	Surrogate: M5PFHxA	*81.8 %*		*25-150*					
	Surrogate: M4PFHpA	*74.0 %*		*25-150*					
	Surrogate: M3PFHxS	*90.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*77.9 %*		*25-150*					
	Surrogate: M6PFDA	*61.9 %*		*25-150*					
	Surrogate: M7PFUdA	*62.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*61.4 %*		*25-150*					
	Surrogate: M2PFTeDA	*71.0 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*87.8 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*78.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*82.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*66.1 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*78.2 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*68.7 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*71.2 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*88.9 %*		*25-200*					
	Surrogate: M9PFNA	*81.3 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**92.8**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-6 (6-8 ft) **York Sample ID:** 22F0077-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:15 am	06/01/2022

Sample Information

Client Sample ID: SB-6 (6-8 ft) **York Sample ID:** 22F0077-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:15 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 12:16 06/09/2022 20:49	WL

Sample Information

Client Sample ID: SB-6 (6-8 ft) **York Sample ID:** 22F0077-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:15 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*87.5 %*		*25-150*					
	Surrogate: M5PFHxA	*72.1 %*		*25-150*					
	Surrogate: M4PFHpA	*70.2 %*		*25-150*					
	Surrogate: M3PFHxS	*70.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*62.4 %*		*25-150*					
	Surrogate: M6PFDA	*46.0 %*		*25-150*					
	Surrogate: M7PFUdA	*52.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*50.1 %*		*25-150*					
	Surrogate: M2PFTeDA	*36.4 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*81.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*57.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*77.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*46.5 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*51.0 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*52.9 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*84.7 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*50.0 %*		*25-200*					
	Surrogate: M9PFNA	*55.3 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**93.8**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-6 (14-16 ft) **York Sample ID:** 22F0077-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:20 am	06/01/2022

Sample Information

Client Sample ID: SB-6 (14-16 ft) **York Sample ID:** 22F0077-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 12:16 06/09/2022 21:02	WL

Sample Information

Client Sample ID: SB-6 (14-16 ft) **York Sample ID:** 22F0077-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*109 %*		*25-150*					
	Surrogate: M5PFHxA	*87.3 %*		*25-150*					
	Surrogate: M4PFHpA	*76.1 %*		*25-150*					
	Surrogate: M3PFHxS	*86.1 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*80.8 %*		*25-150*					
	Surrogate: M6PFDA	*65.7 %*		*25-150*					
	Surrogate: M7PFUdA	*69.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*59.5 %*		*25-150*					
	Surrogate: M2PFTeDA	*47.2 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*94.4 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*84.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*89.5 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*58.2 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*68.1 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*69.5 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*85.0 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*78.9 %*		*25-200*					
	Surrogate: M9PFNA	*89.1 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**93.9**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-7 (0-2 ft) **York Sample ID:** 22F0077-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:16 pm	06/01/2022

Sample Information

Client Sample ID: SB-7 (0-2 ft) **York Sample ID:** 22F0077-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:16 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.282	EPA 537m	06/07/2022 12:16 06/09/2022 21:15	WL

Sample Information

Client Sample ID: SB-7 (0-2 ft) **York Sample ID:** 22F0077-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:16 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*84.8 %*		*25-150*					
	Surrogate: M5PFHxA	*72.2 %*		*25-150*					
	Surrogate: M4PFHpA	*69.9 %*		*25-150*					
	Surrogate: M3PFHxS	*76.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*65.0 %*		*25-150*					
	Surrogate: M6PFDA	*50.0 %*		*25-150*					
	Surrogate: M7PFUdA	*49.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*49.2 %*		*25-150*					
	Surrogate: M2PFTeDA	*37.4 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*79.4 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*70.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.4 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*54.9 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*57.6 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*113 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*86.8 %*		*25-200*					
	Surrogate: M9PFNA	*64.1 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**87.9**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-7 (6-8 ft) **York Sample ID:** 22F0077-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:20 pm	06/01/2022

Sample Information

Client Sample ID: SB-7 (6-8 ft) **York Sample ID:** 22F0077-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:20 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.253	EPA 537m	06/07/2022 17:24 06/10/2022 20:35	WEL

Sample Information

Client Sample ID: SB-7 (6-8 ft) **York Sample ID:** 22F0077-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:20 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*89.9 %*		*25-150*					
	Surrogate: M5PFHxA	*76.8 %*		*25-150*					
	Surrogate: M4PFHpA	*72.1 %*		*25-150*					
	Surrogate: M3PFHxS	*83.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*71.9 %*		*25-150*					
	Surrogate: M6PFDA	*62.2 %*		*25-150*					
	Surrogate: M7PFUdA	*53.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*49.4 %*		*25-150*					
	Surrogate: M2PFTeDA	*41.9 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*80.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*62.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*77.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*41.3 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*47.0 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*52.1 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*77.7 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*67.4 %*		*25-200*					
	Surrogate: M9PFNA	*77.3 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**94.5**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-7 (14-16 ft) **York Sample ID:** 22F0077-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:25 pm	06/01/2022

Sample Information

Client Sample ID: SB-7 (14-16 ft) **York Sample ID:** 22F0077-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:25 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.248	EPA 537m	06/07/2022 17:24 06/10/2022 20:48	WEL

Sample Information

Client Sample ID: SB-7 (14-16 ft) **York Sample ID:** 22F0077-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 2:25 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*81.5 %*		*25-150*					
	Surrogate: M5PFHxA	*71.0 %*		*25-150*					
	Surrogate: M4PFHpA	*67.6 %*		*25-150*					
	Surrogate: M3PFHxS	*75.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*64.8 %*		*25-150*					
	Surrogate: M6PFDA	*54.5 %*		*25-150*					
	Surrogate: M7PFUdA	*57.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*50.2 %*		*25-150*					
	Surrogate: M2PFTeDA	*58.7 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*75.8 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*59.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*73.7 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*47.9 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*54.6 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*58.0 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*71.3 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*75.7 %*		*25-200*					
	Surrogate: M9PFNA	*66.0 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**93.8**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-8 (0-2 ft) **York Sample ID:** 22F0077-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:35 pm	06/01/2022

Sample Information

Client Sample ID: SB-8 (0-2 ft) **York Sample ID:** 22F0077-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:35 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.449**		**0**	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.278	EPA 537m	06/07/2022 17:24 06/10/2022 21:01	WEL

Sample Information

Client Sample ID: SB-8 (0-2 ft) **York Sample ID:** 22F0077-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:35 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*85.6 %*		*25-150*					
	Surrogate: M5PFHxA	*67.6 %*		*25-150*					
	Surrogate: M4PFHpA	*58.7 %*		*25-150*					
	Surrogate: M3PFHxS	*66.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.6 %*		*25-150*					
	Surrogate: M6PFDA	*45.8 %*		*25-150*					
	Surrogate: M7PFUdA	*43.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*45.2 %*		*25-150*					
	Surrogate: M2PFTeDA	*39.7 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*69.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*53.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*66.9 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*35.6 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*50.9 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*53.6 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*75.8 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*60.1 %*		*25-200*					
	Surrogate: M9PFNA	*57.8 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**86.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-8 (6-8 ft) **York Sample ID:** 22F0077-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:40 pm	06/01/2022

Sample Information

Client Sample ID: SB-8 (6-8 ft) **York Sample ID:** 22F0077-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:40 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.262	EPA 537m	06/07/2022 17:24 06/10/2022 21:14	WEL

Sample Information

Client Sample ID: SB-8 (6-8 ft) **York Sample ID:** 22F0077-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:40 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*82.0 %*		*25-150*					
	Surrogate: M5PFHxA	*68.3 %*		*25-150*					
	Surrogate: M4PFHpA	*68.8 %*		*25-150*					
	Surrogate: M3PFHxS	*70.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*63.1 %*		*25-150*					
	Surrogate: M6PFDA	*49.3 %*		*25-150*					
	Surrogate: M7PFUdA	*50.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*50.1 %*		*25-150*					
	Surrogate: M2PFTeDA	*46.3 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*73.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*65.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*71.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.4 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*45.6 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*56.1 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*72.4 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*57.7 %*		*25-200*					
	Surrogate: M9PFNA	*65.1 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**94.5**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-8 (14-16 ft) **York Sample ID:** 22F0077-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:50 pm	06/01/2022

Sample Information

Client Sample ID: SB-8 (14-16 ft) **York Sample ID:** 22F0077-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:50 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 21:40	WEL

Sample Information

Client Sample ID: SB-8 (14-16 ft) **York Sample ID:** 22F0077-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:50 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*65.8 %*		*25-150*					
	Surrogate: M5PFHxA	*64.5 %*		*25-150*					
	Surrogate: M4PFHpA	*56.5 %*		*25-150*					
	Surrogate: M3PFHxS	*57.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*47.0 %*		*25-150*					
	Surrogate: M6PFDA	*25.3 %*		*25-150*					
	Surrogate: M7PFUdA	*16.6 %*	PFSu-L	*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.2 %*	PFSu-L	*25-150*					
	Surrogate: M2PFTeDA	*6.22 %*	PFSu-L	*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*71.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*36.4 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*67.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*4.72 %*	PFSu-L	*10-150*					
	Surrogate: d3-N-MeFOSAA	*17.1 %*	PFSu-L	*25-150*					
	Surrogate: d5-N-EtFOSAA	*10.4 %*	PFSu-L	*25-150*					
	Surrogate: M2-6:2 FTS	*53.9 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*30.5 %*		*25-200*					
	Surrogate: M9PFNA	*46.0 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**95.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-9 (0-2 ft) **York Sample ID:** 22F0077-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 8:50 am	06/01/2022

Sample Information

Client Sample ID: SB-9 (0-2 ft) **York Sample ID:** 22F0077-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 8:50 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.291	EPA 537m	06/07/2022 17:24 06/10/2022 21:53	WEL

Sample Information

Client Sample ID: SB-9 (0-2 ft) **York Sample ID:** 22F0077-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 8:50 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*78.6 %*		*25-150*					
	Surrogate: M5PFHxA	*70.3 %*		*25-150*					
	Surrogate: M4PFHpA	*66.0 %*		*25-150*					
	Surrogate: M3PFHxS	*62.7 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*57.1 %*		*25-150*					
	Surrogate: M6PFDA	*48.3 %*		*25-150*					
	Surrogate: M7PFUdA	*50.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*54.3 %*		*25-150*					
	Surrogate: M2PFTeDA	*49.4 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*72.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*52.2 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*68.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*45.9 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*42.9 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*60.2 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*75.0 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*47.6 %*		*25-200*					
	Surrogate: M9PFNA	*57.7 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**84.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-9 (6-8 ft) **York Sample ID:** 22F0077-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:05 am	06/01/2022

Sample Information

Client Sample ID: SB-9 (6-8 ft) **York Sample ID:** 22F0077-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:05 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.259	EPA 537m	06/07/2022 17:24 06/10/2022 22:06	WEL

Sample Information

Client Sample ID: SB-9 (6-8 ft) **York Sample ID:** 22F0077-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:05 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*88.0 %*		*25-150*					
	Surrogate: M5PFHxA	*71.5 %*		*25-150*					
	Surrogate: M4PFHpA	*74.3 %*		*25-150*					
	Surrogate: M3PFHxS	*73.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.5 %*		*25-150*					
	Surrogate: M6PFDA	*51.7 %*		*25-150*					
	Surrogate: M7PFUdA	*50.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*52.6 %*		*25-150*					
	Surrogate: M2PFTeDA	*51.5 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*74.4 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*68.3 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*72.8 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*45.7 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*51.9 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*51.1 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*67.3 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*58.9 %*		*25-200*					
	Surrogate: M9PFNA	*67.4 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**95.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-9 (14-16 ft) **York Sample ID:** 22F0077-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:15 am	06/01/2022

Sample Information

Client Sample ID: SB-9 (14-16 ft) **York Sample ID:** 22F0077-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:15 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**0.445**		**0**	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.249	EPA 537m	06/07/2022 17:24 06/10/2022 22:19	WEL

Sample Information

Client Sample ID: SB-9 (14-16 ft) **York Sample ID:** 22F0077-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 9:15 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*88.1 %*		*25-150*					
	Surrogate: M5PFHxA	*77.5 %*		*25-150*					
	Surrogate: M4PFHpA	*73.8 %*		*25-150*					
	Surrogate: M3PFHxS	*78.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*65.5 %*		*25-150*					
	Surrogate: M6PFDA	*53.9 %*		*25-150*					
	Surrogate: M7PFUdA	*54.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*48.2 %*		*25-150*					
	Surrogate: M2PFTeDA	*50.2 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*78.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*69.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*75.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*44.9 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*57.6 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*59.7 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*87.4 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*56.0 %*		*25-200*					
	Surrogate: M9PFNA	*66.9 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**94.4**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-10 (0-2 ft) **York Sample ID:** 22F0077-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:55 pm	06/01/2022

Sample Information

Client Sample ID: SB-10 (0-2 ft) **York Sample ID:** 22F0077-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:55 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.289	EPA 537m	06/07/2022 17:24 06/10/2022 22:32	WEL

Sample Information

Client Sample ID: SB-10 (0-2 ft) **York Sample ID:** 22F0077-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 12:55 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*96.1 %*		*25-150*					
	Surrogate: M5PFHxA	*77.4 %*		*25-150*					
	Surrogate: M4PFHpA	*62.3 %*		*25-150*					
	Surrogate: M3PFHxS	*86.2 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*67.1 %*		*25-150*					
	Surrogate: M6PFDA	*61.5 %*		*25-150*					
	Surrogate: M7PFUdA	*58.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*57.8 %*		*25-150*					
	Surrogate: M2PFTeDA	*62.8 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*86.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*81.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*82.4 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*48.6 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*67.9 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*81.4 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*176 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*125 %*		*25-200*					
	Surrogate: M9PFNA	*73.0 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**86.3**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-10 (6-8 ft) **York Sample ID:** 22F0077-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:00 pm	06/01/2022

Sample Information

Client Sample ID: SB-10 (6-8 ft) **York Sample ID:** 22F0077-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:00 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.270	EPA 537m	06/07/2022 17:24 06/10/2022 22:45	WEL

Sample Information

Client Sample ID: SB-10 (6-8 ft) **York Sample ID:** 22F0077-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:00 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*87.1 %*		*25-150*					
	Surrogate: M5PFHxA	*78.4 %*		*25-150*					
	Surrogate: M4PFHpA	*74.1 %*		*25-150*					
	Surrogate: M3PFHxS	*73.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.4 %*		*25-150*					
	Surrogate: M6PFDA	*57.3 %*		*25-150*					
	Surrogate: M7PFUdA	*57.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*61.0 %*		*25-150*					
	Surrogate: M2PFTeDA	*62.0 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*82.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*64.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*79.3 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*53.9 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*59.1 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*58.8 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*73.4 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*73.0 %*		*25-200*					
	Surrogate: M9PFNA	*78.2 %*		*25-150*					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**90.4**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-10 (14-16 ft) **York Sample ID:** 22F0077-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:10 pm	06/01/2022

Sample Information

Client Sample ID: SB-10 (14-16 ft) **York Sample ID:** 22F0077-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:10 pm	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
2991-50-6	*** N-EtFOSAA**	**0.448**		**0**	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry Certifications:	0.257	EPA 537m	06/07/2022 17:24 06/10/2022 22:57	WEL

Sample Information

Client Sample ID: SB-10 (14-16 ft) **York Sample ID:** 22F0077-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Soil	May 26, 2022 1:10 pm	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*99.0 %*		*25-150*					
	Surrogate: M5PFHxA	*74.7 %*		*25-150*					
	Surrogate: M4PFHpA	*62.6 %*		*25-150*					
	Surrogate: M3PFHxS	*86.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*58.4 %*		*25-150*					
	Surrogate: M6PFDA	*55.9 %*		*25-150*					
	Surrogate: M7PFUdA	*48.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*50.8 %*		*25-150*					
	Surrogate: M2PFTeDA	*61.9 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*84.6 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*71.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*79.1 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*37.7 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*62.8 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*66.4 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*185 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*144 %*		*25-200*					
	Surrogate: M9PFNA	*64.3 %*		*25-150*					

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
solids	*** % Solids**	**90.1**		**100**	%	0.100	SM 2540G	06/09/2022 19:08	JTG
					Certifications:	CTDOH		06/09/2022 19:25	

Sample Information

Client Sample ID: SB-6 PFAS FB-1 **York Sample ID:** 22F0077-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Water	May 26, 2022 10:20 am	06/01/2022

Sample Information

Client Sample ID: SB-6 PFAS FB-1 **York Sample ID:** 22F0077-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Water	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
2355-31-9	* N-MeFOSAA	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
2991-50-6	* N-EtFOSAA	ND	PF-CCV-L	0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ng/L Certifications:	5.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ng/L Certifications:	2.00	EPA 537m	06/06/2022 15:02 06/07/2022 17:11	WL

Sample Information

Client Sample ID: SB-6 PFAS FB-1 **York Sample ID:** 22F0077-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Water	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**					
	Surrogate: M3PFBS	*89.4 %*		*25-150*					
	Surrogate: M5PFHxA	*78.5 %*		*25-150*					
	Surrogate: M4PFHpA	*81.4 %*		*25-150*					
	Surrogate: M3PFHxS	*86.8 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*72.2 %*		*25-150*					
	Surrogate: M6PFDA	*73.4 %*		*25-150*					
	Surrogate: M7PFUdA	*75.2 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*63.0 %*		*25-150*					
	Surrogate: M2PFTeDA	*61.1 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*83.7 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*79.0 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*83.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*37.7 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*64.4 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*69.3 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*115 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*90.4 %*		*25-200*					
	Surrogate: M9PFNA	*80.3 %*		*25-150*					

Sample Information

Client Sample ID: SB-1 PFAS FB-2 **York Sample ID:** 22F0077-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Water	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02 06/07/2022 17:24	WL
					Certifications:				

Sample Information

Client Sample ID: SB-1 PFAS FB-2 **York Sample ID:** 22F0077-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Water	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
2355-31-9	* N-MeFOSAA	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
2991-50-6	* N-EtFOSAA	ND	PF-CCV-L	0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ng/L	4.81	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ng/L	1.92	EPA 537m	06/06/2022 15:02	WL
					Certifications:			06/07/2022 17:24	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*95.7 %*	*25-150*
Surrogate: M5PFHxA	*84.8 %*	*25-150*

Sample Information

Client Sample ID: **SB-1 PFAS FB-2** **York Sample ID:** **22F0077-32**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0077	SB-1-SB-10	Water	May 26, 2022 10:20 am	06/01/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
	Surrogate: M4PFHpA	*80.7 %*		*25-150*					
	Surrogate: M3PFHxS	*86.5 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*79.4 %*		*25-150*					
	Surrogate: M6PFDA	*77.7 %*		*25-150*					
	Surrogate: M7PFUdA	*74.6 %*		*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*58.8 %*		*25-150*					
	Surrogate: M2PFTeDA	*38.3 %*		*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*86.2 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*77.9 %*		*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*87.0 %*		*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*45.2 %*		*10-150*					
	Surrogate: d3-N-MeFOSAA	*62.3 %*		*25-150*					
	Surrogate: d5-N-EtFOSAA	*61.0 %*		*25-150*					
	Surrogate: M2-6:2 FTS	*124 %*		*25-200*					
	Surrogate: M2-8:2 FTS	*109 %*		*25-200*					
	Surrogate: M9PFNA	*85.1 %*		*25-150*					

Analytical Batch Summary

Batch ID: BF20323 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22F0077-31	SB-6 PFAS FB-1	06/06/22
22F0077-32	SB-1 PFAS FB-2	06/06/22
BF20323-BLK1	Blank	06/06/22
BF20323-BS1	LCS	06/06/22
BF20323-BSD1	LCS Dup	06/06/22

Batch ID: BF20398 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22F0077-01	SB-1 (0-2 ft)	06/07/22
22F0077-02	SB-1 (6-8 ft)	06/07/22
22F0077-03	SB-1 (14-16 ft)	06/07/22
22F0077-04	SB-2 (0-2 ft)	06/07/22
22F0077-05	SB-2 (6-8 ft)	06/07/22
22F0077-06	SB-2 (14-16 ft)	06/07/22
22F0077-07	SB-3 (0-2 ft)	06/07/22
22F0077-08	SB-3 (6-8 ft)	06/07/22
22F0077-09	SB-3 (14-16 ft)	06/07/22
22F0077-10	SB-4 (0-2 ft)	06/07/22
22F0077-11	SB-4 (6-8 ft)	06/07/22
22F0077-12	SB-4 (14-16 ft)	06/07/22
22F0077-13	SB-5 (0-2 ft)	06/07/22
22F0077-14	SB-5 (6-8 ft)	06/07/22
22F0077-15	SB-5 (14-16 ft)	06/07/22
22F0077-16	SB-6 (0-2 ft)	06/07/22
22F0077-17	SB-6 (6-8 ft)	06/07/22
22F0077-18	SB-6 (14-16 ft)	06/07/22
22F0077-19	SB-7 (0-2 ft)	06/07/22
BF20398-BLK1	Blank	06/07/22
BF20398-BS1	LCS	06/07/22
BF20398-MS1	Matrix Spike	06/07/22
BF20398-MSD1	Matrix Spike Dup	06/07/22

Batch ID: BF20438 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22F0077-20	SB-7 (6-8 ft)	06/07/22
22F0077-21	SB-7 (14-16 ft)	06/07/22
22F0077-22	SB-8 (0-2 ft)	06/07/22
22F0077-23	SB-8 (6-8 ft)	06/07/22
22F0077-24	SB-8 (14-16 ft)	06/07/22
22F0077-25	SB-9 (0-2 ft)	06/07/22
22F0077-26	SB-9 (6-8 ft)	06/07/22
22F0077-27	SB-9 (14-16 ft)	06/07/22
22F0077-28	SB-10 (0-2 ft)	06/07/22



22F0077-29	SB-10 (6-8 ft)	06/07/22
22F0077-30	SB-10 (14-16 ft)	06/07/22
BF20438-BLK1	Blank	06/07/22
BF20438-BS1	LCS	06/07/22
BF20438-MS1	Matrix Spike	06/07/22
BF20438-MSD1	Matrix Spike Dup	06/07/22

Batch ID: BF20626 **Preparation Method:** % Solids Prep **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22F0077-01	SB-1 (0-2 ft)	06/09/22
22F0077-02	SB-1 (6-8 ft)	06/09/22
22F0077-03	SB-1 (14-16 ft)	06/09/22
22F0077-04	SB-2 (0-2 ft)	06/09/22
22F0077-05	SB-2 (6-8 ft)	06/09/22
22F0077-06	SB-2 (14-16 ft)	06/09/22
22F0077-07	SB-3 (0-2 ft)	06/09/22
22F0077-08	SB-3 (6-8 ft)	06/09/22
22F0077-09	SB-3 (14-16 ft)	06/09/22
22F0077-10	SB-4 (0-2 ft)	06/09/22
22F0077-11	SB-4 (6-8 ft)	06/09/22
22F0077-12	SB-4 (14-16 ft)	06/09/22
22F0077-13	SB-5 (0-2 ft)	06/09/22
22F0077-14	SB-5 (6-8 ft)	06/09/22
22F0077-15	SB-5 (14-16 ft)	06/09/22
22F0077-16	SB-6 (0-2 ft)	06/09/22
22F0077-17	SB-6 (6-8 ft)	06/09/22
22F0077-18	SB-6 (14-16 ft)	06/09/22
22F0077-19	SB-7 (0-2 ft)	06/09/22
22F0077-20	SB-7 (6-8 ft)	06/09/22
22F0077-21	SB-7 (14-16 ft)	06/09/22
22F0077-22	SB-8 (0-2 ft)	06/09/22
22F0077-23	SB-8 (6-8 ft)	06/09/22
22F0077-24	SB-8 (14-16 ft)	06/09/22
22F0077-25	SB-9 (0-2 ft)	06/09/22
22F0077-26	SB-9 (6-8 ft)	06/09/22
22F0077-27	SB-9 (14-16 ft)	06/09/22
22F0077-28	SB-10 (0-2 ft)	06/09/22
22F0077-29	SB-10 (6-8 ft)	06/09/22
22F0077-30	SB-10 (14-16 ft)	06/09/22
BF20626-DUP1	Duplicate	06/09/22
BF20626-DUP2	Duplicate	06/09/22



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20323 - SPE Ext-PFAS-EPA 537.1M											
Blank (BF20323-BLK1)									Prepared: 06/06/2022 Analyzed: 06/07/2022		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*72.9*		"	*74.3*		*98.1*	*25-150*				
Surrogate: M5PFHxA	*71.7*		"	*80.0*		*89.7*	*25-150*				
Surrogate: M4PFHpA	*69.3*		"	*80.0*		*86.6*	*25-150*				
Surrogate: M3PFHxS	*73.2*		"	*75.7*		*96.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*68.6*		"	*80.0*		*85.8*	*25-150*				
Surrogate: M6PFDA	*65.7*		"	*80.0*		*82.1*	*25-150*				
Surrogate: M7PFUdA	*72.0*		"	*80.0*		*90.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*53.2*		"	*80.0*		*66.5*	*25-150*				
Surrogate: M2PFTeDA	*49.2*		"	*80.0*		*61.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*71.4*		"	*80.0*		*89.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*72.8*		"	*76.6*		*95.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*70.7*		"	*80.0*		*88.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.9*		"	*80.0*		*36.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.1*		"	*80.0*		*68.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*59.2*		"	*80.0*		*74.0*	*25-150*				
Surrogate: M2-6:2 FTS	*75.7*		"	*75.9*		*99.7*	*25-200*				
Surrogate: M2-8:2 FTS	*85.3*		"	*76.6*		*111*	*25-200*				
Surrogate: M9PFNA	*71.9*		"	*80.0*		*89.8*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20323 - SPE Ext-PFAS-EPA 537.1M											
LCS (BF20323-BS1)								Prepared: 06/06/2022 Analyzed: 06/07/2022			
Perfluorobutanesulfonic acid (PFBS)	78.0	2.00	ng/L	70.8		110	50-130				
Perfluorohexanoic acid (PFHxA)	92.2	2.00	"	80.0		115	50-130				
Perfluoroheptanoic acid (PFHpA)	91.0	2.00	"	80.0		114	50-130				
Perfluorohexanesulfonic acid (PFHxS)	83.3	2.00	"	72.8		114	50-130				
Perfluorooctanoic acid (PFOA)	96.9	2.00	"	80.0		121	50-130				
Perfluorooctanesulfonic acid (PFOS)	82.6	2.00	"	74.0		112	50-130				
Perfluorononanoic acid (PFNA)	95.2	2.00	"	80.0		119	50-130				
Perfluorodecanoic acid (PFDA)	93.6	2.00	"	80.0		117	50-130				
Perfluoroundecanoic acid (PFUnA)	90.0	2.00	"	80.0		113	50-130				
Perfluorododecanoic acid (PFDoA)	91.9	2.00	"	80.0		115	50-130				
Perfluorotridecanoic acid (PFTrDA)	80.6	2.00	"	80.0		101	50-130				
Perfluorotetradecanoic acid (PFTA)	98.6	2.00	"	80.0		123	50-130				
N-MeFOSAA	89.3	2.00	"	80.0		112	50-130				
N-EtFOSAA	85.5	2.00	"	80.0		107	50-130				
Perfluoropentanoic acid (PFPeA)	89.8	2.00	"	80.0		112	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	111	2.00	"	80.0		139	50-130	High Bias			
Perfluoro-1-heptanesulfonic acid (PFHpS)	87.3	2.00	"	76.4		114	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	73.1	2.00	"	77.2		94.8	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.3	5.00	"	76.0		100	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	93.4	2.00	"	76.8		122	50-175				
Perfluoro-n-butanoic acid (PFBA)	90.4	2.00	"	80.0		113	50-130				
Surrogate: M3PFBS	*73.5*		"	*74.3*		*98.9*	*25-150*				
Surrogate: M5PFHxA	*72.5*		"	*80.0*		*90.6*	*25-150*				
Surrogate: M4PFHpA	*73.9*		"	*80.0*		*92.3*	*25-150*				
Surrogate: M3PFHxS	*75.4*		"	*75.7*		*99.6*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*66.2*		"	*80.0*		*82.8*	*25-150*				
Surrogate: M6PFDA	*64.5*		"	*80.0*		*80.6*	*25-150*				
Surrogate: M7PFUdA	*61.0*		"	*80.0*		*76.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*53.9*		"	*80.0*		*67.3*	*25-150*				
Surrogate: M2PFTeDA	*42.9*		"	*80.0*		*53.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*74.4*		"	*80.0*		*93.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*75.7*		"	*76.6*		*98.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.7*		"	*80.0*		*93.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*26.7*		"	*80.0*		*33.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*50.8*		"	*80.0*		*63.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.5*		"	*80.0*		*59.4*	*25-150*				
Surrogate: M2-6:2 FTS	*87.3*		"	*75.9*		*115*	*25-200*				
Surrogate: M2-8:2 FTS	*67.7*		"	*76.6*		*88.3*	*25-200*				
Surrogate: M9PFNA	*68.8*		"	*80.0*		*86.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20323 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BF20323-BSD1)								Prepared: 06/06/2022 Analyzed: 06/07/2022			
Perfluorobutanesulfonic acid (PFBS)	75.3	2.00	ng/L	70.8		106	50-130		3.51	30	
Perfluorohexanoic acid (PFHxA)	85.4	2.00	"	80.0		107	50-130		7.56	30	
Perfluoroheptanoic acid (PFHpA)	92.3	2.00	"	80.0		115	50-130		1.41	30	
Perfluorohexanesulfonic acid (PFHxS)	80.5	2.00	"	72.8		111	50-130		3.38	30	
Perfluorooctanoic acid (PFOA)	87.0	2.00	"	80.0		109	50-130		10.8	30	
Perfluorooctanesulfonic acid (PFOS)	81.0	2.00	"	74.0		109	50-130		1.97	30	
Perfluorononanoic acid (PFNA)	86.5	2.00	"	80.0		108	50-130		9.62	30	
Perfluorodecanoic acid (PFDA)	97.0	2.00	"	80.0		121	50-130		3.56	30	
Perfluoroundecanoic acid (PFUnA)	80.7	2.00	"	80.0		101	50-130		11.0	30	
Perfluorododecanoic acid (PFDoA)	90.6	2.00	"	80.0		113	50-130		1.45	30	
Perfluorotridecanoic acid (PFTrDA)	64.3	2.00	"	80.0		80.4	50-130		22.6	30	
Perfluorotetradecanoic acid (PFTA)	105	2.00	"	80.0		131	50-130	High Bias	6.16	30	
N-MeFOSAA	84.7	2.00	"	80.0		106	50-130		5.37	30	
N-EtFOSAA	103	2.00	"	80.0		129	50-130		18.8	30	
Perfluoropentanoic acid (PFPeA)	86.6	2.00	"	80.0		108	50-130		3.66	30	
Perfluoro-1-octanesulfonamide (FOSA)	103	2.00	"	80.0		128	50-130		7.64	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	84.5	2.00	"	76.4		111	50-130		3.21	30	
Perfluoro-1-decanesulfonic acid (PFDS)	67.4	2.00	"	77.2		87.3	50-130		8.14	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	90.1	5.00	"	76.0		119	50-175		16.5	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	101	2.00	"	76.8		131	50-175		7.74	30	
Perfluoro-n-butanoic acid (PFBA)	88.4	2.00	"	80.0		111	50-130		2.26	30	
Surrogate: M3PFBS	*74.8*		"	*74.3*		*101*	*25-150*				
Surrogate: M5PFHxA	*74.5*		"	*80.0*		*93.1*	*25-150*				
Surrogate: M4PFHpA	*69.5*		"	*80.0*		*86.9*	*25-150*				
Surrogate: M3PFHxS	*75.6*		"	*75.7*		*99.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*71.2*		"	*80.0*		*89.0*	*25-150*				
Surrogate: M6PFDA	*61.1*		"	*80.0*		*76.4*	*25-150*				
Surrogate: M7PFUdA	*61.4*		"	*80.0*		*76.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*45.1*		"	*80.0*		*56.4*	*25-150*				
Surrogate: M2PFTeDA	*33.7*		"	*80.0*		*42.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*74.2*		"	*80.0*		*92.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*76.2*		"	*76.6*		*99.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.2*		"	*80.0*		*92.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.0*		"	*80.0*		*35.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*42.1*		"	*80.0*		*52.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*30.7*		"	*80.0*		*38.4*	*25-150*				
Surrogate: M2-6:2 FTS	*68.6*		"	*75.9*		*90.4*	*25-200*				
Surrogate: M2-8:2 FTS	*75.0*		"	*76.6*		*97.9*	*25-200*				
Surrogate: M9PFNA	*68.4*		"	*80.0*		*85.5*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20398 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BF20398-BLK1)											Prepared: 06/07/2022 Analyzed: 06/09/2022
Perfluorobutanesulfonic acid (PFBS)	ND	0.237	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.237	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.237	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.237	"								
Perfluorooctanoic acid (PFOA)	ND	0.237	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.237	"								
Perfluorononanoic acid (PFNA)	ND	0.237	"								
Perfluorodecanoic acid (PFDA)	ND	0.237	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.237	"								
Perfluorododecanoic acid (PFDoA)	ND	0.237	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.237	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.237	"								
N-MeFOSAA	ND	0.237	"								
N-EtFOSAA	ND	0.237	"								
Perfluoropentanoic acid (PFPeA)	ND	0.237	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.237	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.237	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.237	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.237	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.237	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.237	"								
Surrogate: M3PFBS	*4.33*		"	*4.40*		*98.4*	*25-150*				
Surrogate: M5PFHxA	*3.61*		"	*4.74*		*76.2*	*25-150*				
Surrogate: M4PFHpA	*3.39*		"	*4.74*		*71.4*	*25-150*				
Surrogate: M3PFHxS	*4.12*		"	*4.49*		*91.8*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.84*		"	*4.74*		*80.9*	*25-150*				
Surrogate: M6PFDA	*2.77*		"	*4.74*		*58.4*	*25-150*				
Surrogate: M7PFUdA	*3.01*		"	*4.74*		*63.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.68*		"	*4.74*		*56.6*	*25-150*				
Surrogate: M2PFTeDA	*2.26*		"	*4.74*		*47.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.32*		"	*4.74*		*91.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.51*		"	*4.54*		*77.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.95*		"	*4.74*		*83.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.46*		"	*4.74*		*52.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.56*		"	*4.74*		*54.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.80*		"	*4.74*		*59.1*	*25-150*				
Surrogate: M2-6:2 FTS	*5.42*		"	*4.50*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*4.30*		"	*4.54*		*94.6*	*25-200*				
Surrogate: M9PFNA	*3.12*		"	*4.74*		*65.8*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20398 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BF20398-BS1)								Prepared: 06/07/2022 Analyzed: 06/09/2022			
Perfluorobutanesulfonic acid (PFBS)	4.70	0.248	ug/kg wet	4.38		107	50-130				
Perfluorohexanoic acid (PFHxA)	5.46	0.248	"	4.95		110	50-130				
Perfluoroheptanoic acid (PFHpA)	6.24	0.248	"	4.95		126	50-130				
Perfluorohexanesulfonic acid (PFHxS)	5.42	0.248	"	4.50		120	50-130				
Perfluorooctanoic acid (PFOA)	5.64	0.248	"	4.95		114	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.69	0.248	"	4.58		124	50-130				
Perfluorononanoic acid (PFNA)	5.02	0.248	"	4.95		101	50-130				
Perfluorodecanoic acid (PFDA)	6.15	0.248	"	4.95		124	50-130				
Perfluoroundecanoic acid (PFUnA)	5.38	0.248	"	4.95		109	50-130				
Perfluorododecanoic acid (PFDoA)	6.28	0.248	"	4.95		127	50-130				
Perfluorotridecanoic acid (PFTrDA)	4.61	0.248	"	4.95		93.2	50-130				
Perfluorotetradecanoic acid (PFTA)	7.84	0.248	"	4.95		158	50-130	High Bias			
N-MeFOSAA	5.18	0.248	"	4.95		105	50-130				
N-EtFOSAA	4.22	0.248	"	4.95		85.3	50-130				
Perfluoropentanoic acid (PFPeA)	5.57	0.248	"	4.95		112	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	5.91	0.248	"	4.95		119	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.93	0.248	"	4.73		147	50-130	High Bias			
Perfluoro-1-decanesulfonic acid (PFDS)	5.16	0.248	"	4.78		108	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.54	0.248	"	4.70		96.6	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.80	0.248	"	4.75		101	50-200				
Perfluoro-n-butanoic acid (PFBA)	5.68	0.248	"	4.95		115	50-130				
Surrogate: M3PFBS	*4.52*		"	*4.60*		*98.4*	*25-150*				
Surrogate: M5PFHxA	*4.18*		"	*4.95*		*84.5*	*25-150*				
Surrogate: M4PFHpA	*3.79*		"	*4.95*		*76.5*	*25-150*				
Surrogate: M3PFHxS	*4.11*		"	*4.68*		*87.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.80*		"	*4.95*		*76.8*	*25-150*				
Surrogate: M6PFDA	*2.97*		"	*4.95*		*59.9*	*25-150*				
Surrogate: M7PFUdA	*3.05*		"	*4.95*		*61.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.83*		"	*4.95*		*57.2*	*25-150*				
Surrogate: M2PFTeDA	*2.11*		"	*4.95*		*42.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.31*		"	*4.95*		*87.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.47*		"	*4.74*		*73.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.24*		"	*4.95*		*85.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.86*		"	*4.95*		*57.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.34*		"	*4.95*		*67.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.69*		"	*4.95*		*74.6*	*25-150*				
Surrogate: M2-6:2 FTS	*5.26*		"	*4.70*		*112*	*25-200*				
Surrogate: M2-8:2 FTS	*4.40*		"	*4.74*		*92.7*	*25-200*				
Surrogate: M9PFNA	*4.00*		"	*4.95*		*80.7*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20398 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BF20398-MS1)	*Source sample: 22F0055-16 (Matrix Spike)							Prepared: 06/07/2022 Analyzed: 06/09/2022			
Perfluorobutanesulfonic acid (PFBS)	4.57	0.237	ug/kg dry	4.19	ND	109	25-150				
Perfluorohexanoic acid (PFHxA)	5.40	0.237	"	4.74	ND	114	25-150				
Perfluoroheptanoic acid (PFHpA)	5.55	0.237	"	4.74	ND	117	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.65	0.237	"	4.31	ND	108	25-150				
Perfluorooctanoic acid (PFOA)	5.54	0.237	"	4.74	ND	117	25-150				
Perfluorooctanesulfonic acid (PFOS)	5.69	0.237	"	4.38	1.09	105	25-150				
Perfluorononanoic acid (PFNA)	5.26	0.237	"	4.74	0.145	108	25-150				
Perfluorodecanoic acid (PFDA)	5.66	0.237	"	4.74	ND	119	25-150				
Perfluoroundecanoic acid (PFUnA)	4.96	0.237	"	4.74	ND	105	25-150				
Perfluorododecanoic acid (PFDoA)	4.94	0.237	"	4.74	ND	104	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.58	0.237	"	4.74	0.0510	95.6	25-150				
Perfluorotetradecanoic acid (PFTA)	5.61	0.237	"	4.74	ND	118	25-150				
N-MeFOSAA	5.42	0.237	"	4.74	ND	114	25-150				
N-EtFOSAA	4.64	0.237	"	4.74	ND	97.9	25-150				
Perfluoropentanoic acid (PFPeA)	5.30	0.237	"	4.74	ND	112	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	6.04	0.237	"	4.74	ND	128	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.58	0.237	"	4.53	ND	145	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	5.05	0.237	"	4.57	ND	110	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.99	0.237	"	4.50	ND	111	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.10	0.237	"	4.55	ND	90.0	25-200				
Perfluoro-n-butanoic acid (PFBA)	5.26	0.237	"	4.74	ND	111	25-150				
Surrogate: M3PFBS	*4.27*		"	*4.40*		*97.0*	*25-150*				
Surrogate: M5PFHxA	*3.79*		"	*4.74*		*80.1*	*25-150*				
Surrogate: M4PFHpA	*3.69*		"	*4.74*		*78.0*	*25-150*				
Surrogate: M3PFHxS	*4.13*		"	*4.48*		*92.1*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.68*		"	*4.74*		*77.6*	*25-150*				
Surrogate: M6PFDA	*2.72*		"	*4.74*		*57.5*	*25-150*				
Surrogate: M7PFUdA	*3.01*		"	*4.74*		*63.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.96*		"	*4.74*		*62.4*	*25-150*				
Surrogate: M2PFTeDA	*2.78*		"	*4.74*		*58.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.20*		"	*4.74*		*88.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.05*		"	*4.53*		*67.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.97*		"	*4.74*		*83.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.83*		"	*4.74*		*59.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.15*		"	*4.74*		*66.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.42*		"	*4.74*		*72.2*	*25-150*				
Surrogate: M2-6:2 FTS	*4.15*		"	*4.50*		*92.3*	*25-200*				
Surrogate: M2-8:2 FTS	*4.26*		"	*4.54*		*93.9*	*25-200*				
Surrogate: M9PFNA	*3.61*		"	*4.74*		*76.2*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20398 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BF20398-MSD1)	*Source sample: 22F0055-16 (Matrix Spike Dup)								Prepared: 06/07/2022 Analyzed: 06/09/2022		
Perfluorobutanesulfonic acid (PFBS)	4.62	0.234	ug/kg dry	4.14	ND	112	25-150		1.09	35	
Perfluorohexanoic acid (PFHxA)	4.96	0.234	"	4.68	ND	106	25-150		8.39	35	
Perfluoroheptanoic acid (PFHpA)	6.26	0.234	"	4.68	ND	134	25-150		12.0	35	
Perfluorohexanesulfonic acid (PFHxS)	5.25	0.234	"	4.26	ND	123	25-150		12.0	35	
Perfluorooctanoic acid (PFOA)	5.14	0.234	"	4.68	ND	110	25-150		7.54	35	
Perfluorooctanesulfonic acid (PFOS)	4.96	0.234	"	4.33	1.09	89.2	25-150		13.9	35	
Perfluorononanoic acid (PFNA)	4.31	0.234	"	4.68	0.145	88.9	25-150		19.9	35	
Perfluorodecanoic acid (PFDA)	6.11	0.234	"	4.68	ND	131	25-150		7.78	35	
Perfluoroundecanoic acid (PFUnA)	5.53	0.234	"	4.68	ND	118	25-150		10.8	35	
Perfluorododecanoic acid (PFDoA)	5.28	0.234	"	4.68	ND	113	25-150		6.64	35	
Perfluorotridecanoic acid (PFTrDA)	4.94	0.234	"	4.68	0.0510	104	25-150		7.44	35	
Perfluorotetradecanoic acid (PFTA)	5.41	0.234	"	4.68	ND	116	25-150		3.62	35	
N-MeFOSAA	5.44	0.234	"	4.68	ND	116	25-150		0.395	35	
N-EtFOSAA	5.43	0.234	"	4.68	ND	116	25-150		15.6	35	
Perfluoropentanoic acid (PFPeA)	4.92	0.234	"	4.68	ND	105	25-150		7.42	35	
Perfluoro-1-octanesulfonamide (FOSA)	6.22	0.234	"	4.68	ND	133	25-150		2.82	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.56	0.234	"	4.47	ND	147	25-150		0.290	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.35	0.234	"	4.52	ND	96.3	25-150		14.8	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.46	0.234	"	4.45	ND	100	25-200		11.2	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.91	0.234	"	4.50	ND	87.0	25-200		4.63	35	
Perfluoro-n-butanoic acid (PFBA)	5.04	0.234	"	4.68	ND	108	25-150		4.34	35	
Surrogate: M3PFBS	*3.70*		*"*	*4.35*		*85.0*	*25-150*				
Surrogate: M5PFHxA	*3.60*		*"*	*4.68*		*76.9*	*25-150*				
Surrogate: M4PFHpA	*2.99*		*"*	*4.68*		*63.9*	*25-150*				
Surrogate: M3PFHxS	*3.38*		*"*	*4.43*		*76.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.28*		*"*	*4.68*		*70.1*	*25-150*				
Surrogate: M6PFDA	*2.33*		*"*	*4.68*		*49.8*	*25-150*				
Surrogate: M7PFUdA	*2.43*		*"*	*4.68*		*51.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.42*		*"*	*4.68*		*51.8*	*25-150*				
Surrogate: M2PFTeDA	*2.61*		*"*	*4.68*		*55.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.06*		*"*	*4.68*		*86.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.92*		*"*	*4.48*		*65.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.69*		*"*	*4.68*		*78.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.30*		*"*	*4.68*		*49.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.77*		*"*	*4.68*		*59.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.41*		*"*	*4.68*		*51.5*	*25-150*				
Surrogate: M2-6:2 FTS	*4.25*		*"*	*4.44*		*95.6*	*25-200*				
Surrogate: M2-8:2 FTS	*3.60*		*"*	*4.49*		*80.3*	*25-200*				
Surrogate: M9PFNA	*3.51*		*"*	*4.68*		*75.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20438 - SPE PFAS Extraction-Soil-EPA 537m											
Blank (BF20438-BLK1)											Prepared: 06/07/2022 Analyzed: 06/10/2022
Perfluorobutanesulfonic acid (PFBS)	ND	0.243	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	0.587	0.243	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.243	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.243	"								
Perfluorooctanoic acid (PFOA)	ND	0.243	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.243	"								
Perfluorononanoic acid (PFNA)	ND	0.243	"								
Perfluorodecanoic acid (PFDA)	ND	0.243	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.243	"								
Perfluorododecanoic acid (PFDoA)	ND	0.243	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.243	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.243	"								
N-MeFOSAA	ND	0.243	"								
N-EtFOSAA	ND	0.243	"								
Perfluoropentanoic acid (PFPeA)	ND	0.243	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.243	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.243	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.243	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.243	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.243	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.243	"								
Surrogate: M3PFBS	*4.64*		"	*4.51*		*103*	*25-150*				
Surrogate: M5PFHxA	*4.05*		"	*4.86*		*83.3*	*25-150*				
Surrogate: M4PFHpA	*3.85*		"	*4.86*		*79.3*	*25-150*				
Surrogate: M3PFHxS	*4.39*		"	*4.60*		*95.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.56*		"	*4.86*		*73.2*	*25-150*				
Surrogate: M6PFDA	*3.61*		"	*4.86*		*74.4*	*25-150*				
Surrogate: M7PFUdA	*3.33*		"	*4.86*		*68.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*3.55*		"	*4.86*		*73.1*	*25-150*				
Surrogate: M2PFTeDA	*3.16*		"	*4.86*		*65.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.33*		"	*4.86*		*89.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*4.52*		"	*4.65*		*97.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.13*		"	*4.86*		*85.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.29*		"	*4.86*		*67.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.64*		"	*4.86*		*74.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.66*		"	*4.86*		*75.2*	*25-150*				
Surrogate: M2-6:2 FTS	*3.59*		"	*4.61*		*78.0*	*25-200*				
Surrogate: M2-8:2 FTS	*4.06*		"	*4.65*		*87.3*	*25-200*				
Surrogate: M9PFNA	*4.25*		"	*4.86*		*87.4*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20438 - SPE PFAS Extraction-Soil-EPA 537m											
LCS (BF20438-BS1)								Prepared: 06/07/2022 Analyzed: 06/10/2022			
Perfluorobutanesulfonic acid (PFBS)	5.22	0.247	ug/kg wet	4.37		120	50-130				
Perfluorohexanoic acid (PFHxA)	5.75	0.247	"	4.93		116	50-130				
Perfluoroheptanoic acid (PFHpA)	6.72	0.247	"	4.93		136	50-130	High Bias			
Perfluorohexanesulfonic acid (PFHxS)	6.50	0.247	"	4.49		145	50-130	High Bias			
Perfluorooctanoic acid (PFOA)	6.20	0.247	"	4.93		126	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.13	0.247	"	4.56		112	50-130				
Perfluorononanoic acid (PFNA)	5.61	0.247	"	4.93		114	50-130				
Perfluorodecanoic acid (PFDA)	5.54	0.247	"	4.93		112	50-130				
Perfluoroundecanoic acid (PFUnA)	5.74	0.247	"	4.93		116	50-130				
Perfluorododecanoic acid (PFDoA)	6.00	0.247	"	4.93		122	50-130				
Perfluorotridecanoic acid (PFTrDA)	6.49	0.247	"	4.93		131	50-130	High Bias			
Perfluorotetradecanoic acid (PFTA)	7.35	0.247	"	4.93		149	50-130	High Bias			
N-MeFOSAA	5.60	0.247	"	4.93		113	50-130				
N-EtFOSAA	5.82	0.247	"	4.93		118	50-130				
Perfluoropentanoic acid (PFPeA)	5.47	0.247	"	4.93		111	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	5.57	0.247	"	4.93		113	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.69	0.247	"	4.71		121	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.65	0.247	"	4.76		97.6	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.13	0.247	"	4.69		88.2	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.08	0.247	"	4.74		86.2	50-200				
Perfluoro-n-butanoic acid (PFBA)	5.48	0.247	"	4.93		111	50-130				
Surrogate: M3PFBS	*4.23*		*"*	*4.58*		*92.3*	*25-150*				
Surrogate: M5PFHxA	*4.06*		*"*	*4.93*		*82.2*	*25-150*				
Surrogate: M4PFHpA	*3.43*		*"*	*4.93*		*69.5*	*25-150*				
Surrogate: M3PFHxS	*3.45*		*"*	*4.67*		*73.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.54*		*"*	*4.93*		*71.7*	*25-150*				
Surrogate: M6PFDA	*3.20*		*"*	*4.93*		*64.9*	*25-150*				
Surrogate: M7PFUdA	*3.04*		*"*	*4.93*		*61.6*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.98*		*"*	*4.93*		*60.5*	*25-150*				
Surrogate: M2PFTeDA	*2.59*		*"*	*4.93*		*52.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.28*		*"*	*4.93*		*86.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.63*		*"*	*4.72*		*76.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.18*		*"*	*4.93*		*84.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*3.15*		*"*	*4.93*		*63.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.07*		*"*	*4.93*		*62.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.28*		*"*	*4.93*		*66.5*	*25-150*				
Surrogate: M2-6:2 FTS	*5.49*		*"*	*4.68*		*117*	*25-200*				
Surrogate: M2-8:2 FTS	*4.69*		*"*	*4.73*		*99.3*	*25-200*				
Surrogate: M9PFNA	*3.66*		*"*	*4.93*		*74.2*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20438 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BF20438-MS1)	*Source sample: 22F0085-02 (Matrix Spike)							Prepared: 06/07/2022 Analyzed: 06/10/2022			
Perfluorobutanesulfonic acid (PFBS)	4.59	0.247	ug/kg wet	4.37	ND	105	25-150				
Perfluorohexanoic acid (PFHxA)	5.54	0.247	"	4.94	ND	112	25-150				
Perfluoroheptanoic acid (PFHpA)	6.21	0.247	"	4.94	ND	126	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.76	0.247	"	4.49	ND	106	25-150				
Perfluorooctanoic acid (PFOA)	6.32	0.247	"	4.94	ND	128	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.76	0.247	"	4.57	0.135	101	25-150				
Perfluorononanoic acid (PFNA)	4.86	0.247	"	4.94	ND	98.4	25-150				
Perfluorodecanoic acid (PFDA)	6.22	0.247	"	4.94	0.0545	125	25-150				
Perfluoroundecanoic acid (PFUnA)	5.25	0.247	"	4.94	ND	106	25-150				
Perfluorododecanoic acid (PFDoA)	5.31	0.247	"	4.94	ND	108	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.40	0.247	"	4.94	ND	109	25-150				
Perfluorotetradecanoic acid (PFTA)	5.43	0.247	"	4.94	ND	110	25-150				
N-MeFOSAA	5.70	0.247	"	4.94	ND	115	25-150				
N-EtFOSAA	5.55	0.247	"	4.94	ND	112	25-150				
Perfluoropentanoic acid (PFPeA)	5.36	0.247	"	4.94	ND	108	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.23	0.247	"	4.94	ND	106	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.47	0.247	"	4.72	ND	116	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.08	0.247	"	4.77	ND	85.7	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	5.16	0.247	"	4.69	ND	110	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.36	0.247	"	4.74	ND	92.1	25-200				
Perfluoro-n-butanoic acid (PFBA)	5.48	0.247	"	4.94	0.549	99.9	25-150				
Surrogate: M3PFBS	*4.06*		"	*4.59*		*88.4*	*25-150*				
Surrogate: M5PFHxA	*3.61*		"	*4.94*		*73.1*	*25-150*				
Surrogate: M4PFHpA	*3.36*		"	*4.94*		*68.1*	*25-150*				
Surrogate: M3PFHxS	*4.09*		"	*4.67*		*87.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.01*		"	*4.94*		*61.0*	*25-150*				
Surrogate: M6PFDA	*2.79*		"	*4.94*		*56.5*	*25-150*				
Surrogate: M7PFUdA	*3.00*		"	*4.94*		*60.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.76*		"	*4.94*		*55.9*	*25-150*				
Surrogate: M2PFTeDA	*2.94*		"	*4.94*		*59.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.76*		"	*4.94*		*76.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.69*		"	*4.73*		*78.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.67*		"	*4.94*		*74.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.74*		"	*4.94*		*55.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.00*		"	*4.94*		*60.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.85*		"	*4.94*		*57.6*	*25-150*				
Surrogate: M2-6:2 FTS	*5.65*		"	*4.69*		*121*	*25-200*				
Surrogate: M2-8:2 FTS	*4.53*		"	*4.73*		*95.8*	*25-200*				
Surrogate: M9PFNA	*3.77*		"	*4.94*		*76.4*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20438 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike Dup (BF20438-MSD1)	*Source sample: 22F0085-02 (Matrix Spike Dup)								Prepared: 06/07/2022 Analyzed: 06/11/2022		
Perfluorobutanesulfonic acid (PFBS)	4.54	0.248	ug/kg wet	4.38	ND	104	25-150		1.07	35	
Perfluorohexanoic acid (PFHxA)	5.59	0.248	"	4.95	ND	113	25-150		0.927	35	
Perfluoroheptanoic acid (PFHpA)	5.81	0.248	"	4.95	ND	117	25-150		6.77	35	
Perfluorohexanesulfonic acid (PFHxS)	5.39	0.248	"	4.51	ND	120	25-150		12.5	35	
Perfluorooctanoic acid (PFOA)	6.02	0.248	"	4.95	ND	122	25-150		4.96	35	
Perfluorooctanesulfonic acid (PFOS)	5.24	0.248	"	4.58	0.135	111	25-150		9.63	35	
Perfluorononanoic acid (PFNA)	4.49	0.248	"	4.95	ND	90.6	25-150		7.98	35	
Perfluorodecanoic acid (PFDA)	5.36	0.248	"	4.95	0.0545	107	25-150		14.9	35	
Perfluoroundecanoic acid (PFUnA)	5.14	0.248	"	4.95	ND	104	25-150		2.28	35	
Perfluorododecanoic acid (PFDoA)	6.12	0.248	"	4.95	ND	124	25-150		14.1	35	
Perfluorotridecanoic acid (PFTrDA)	6.83	0.248	"	4.95	ND	138	25-150		23.4	35	
Perfluorotetradecanoic acid (PFTA)	7.00	0.248	"	4.95	ND	141	25-150		25.2	35	
N-MeFOSAA	5.38	0.248	"	4.95	ND	109	25-150		5.86	35	
N-EtFOSAA	5.49	0.248	"	4.95	ND	111	25-150		0.988	35	
Perfluoropentanoic acid (PFPeA)	5.42	0.248	"	4.95	ND	110	25-150		1.25	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.23	0.248	"	4.95	ND	106	25-150		0.162	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.95	0.248	"	4.73	ND	126	25-150		8.46	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.18	0.248	"	4.78	ND	87.5	25-150		2.42	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.65	0.248	"	4.70	ND	98.8	25-200		10.5	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.90	0.248	"	4.75	ND	103	25-200		11.5	35	
Perfluoro-n-butanoic acid (PFBA)	5.55	0.248	"	4.95	0.549	101	25-150		1.30	35	
Surrogate: M3PFBS	*4.18*		"	*4.60*		*90.8*	*25-150*				
Surrogate: M5PFHxA	*3.53*		"	*4.95*		*71.3*	*25-150*				
Surrogate: M4PFHpA	*3.59*		"	*4.95*		*72.4*	*25-150*				
Surrogate: M3PFHxS	*3.63*		"	*4.68*		*77.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.24*		"	*4.95*		*65.4*	*25-150*				
Surrogate: M6PFDA	*2.78*		"	*4.95*		*56.2*	*25-150*				
Surrogate: M7PFUdA	*2.81*		"	*4.95*		*56.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.49*		"	*4.95*		*50.2*	*25-150*				
Surrogate: M2PFTeDA	*2.49*		"	*4.95*		*50.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.75*		"	*4.95*		*75.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*3.34*		"	*4.74*		*70.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.63*		"	*4.95*		*73.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.56*		"	*4.95*		*51.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.78*		"	*4.95*		*56.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.88*		"	*4.95*		*58.2*	*25-150*				
Surrogate: M2-6:2 FTS	*6.31*		"	*4.70*		*134*	*25-200*				
Surrogate: M2-8:2 FTS	*4.45*		"	*4.74*		*93.7*	*25-200*				
Surrogate: M9PFNA	*3.80*		"	*4.95*		*76.7*	*25-150*				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20626 - % Solids Prep											
Duplicate (BF20626-DUP1)	*Source sample: 22F0077-11 (SB-4 (6-8 ft))							Prepared & Analyzed: 06/09/2022			
% Solids	94.0	0.100	%		93.9				0.0350	20	
Duplicate (BF20626-DUP2)	*Source sample: 22F0236-10 (Duplicate)							Prepared & Analyzed: 06/09/2022			
% Solids	74.6	0.100	%		75.7				1.39	20	


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Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PF-CCV-L	The CCV recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.
MCL	This is the Maximum Contaminant Level in ng/L (ppt) establised by the NYSDOH for these compounds wheree an MCL is reported. Exceedences are flagged according.


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Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

22E0077 Temp 2.1 °C Pg 1 of 3

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(203) 325-1371

Project #: GCL40162
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCL40162

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	PFAS (21) E537 modified	250ml HDPE Plastic As Is	8oz HDPE Plastic As Is
SB-1 (0-2`)	SOIL	5/26/2022	12:00 PM	x	1	
SB-1 (6-8`)	SOIL	5/26/2022	12:10 PM	x	1	
SB-1 (14-16`)	SOIL	5/26/2022	12:15 PM	x	1	
SB-2 (0-2`)	SOIL	5/26/2022	10:50 AM	x	1	
SB-2 (6-8`)	SOIL	5/26/2022	10:55 AM	x	1	
SB-2 (14-16`)	SOIL	5/26/2022	11:00 AM	x	1	
SB-3 (0-2`)	SOIL	5/26/2022	1:15 PM	x	1	
SB-3 (6-8`)	SOIL	5/26/2022	1:20 PM	x	1	
SB-3 (14-16`)	SOIL	5/26/2022	1:30 PM	x	1	
SB-4 (0-2`)	SOIL	5/26/2022	12:35 PM	x	1	
SB-4 (6-8`)	SOIL	5/26/2022	12:40 PM	x	1	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6-1-22	0700
[signature]	[signature]	6/1/22	10:47

Comments, Special Requirements or Regulations:

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

Turnaround:
[ ] 1 Day
[ ] 2 Days
[ ] 3 Days
[ ] 5 Days
[ ] 10 Days
[X] Standard
[ ] Other_____

Report Type:
[X] Standard PDF
[ ] Full Data Package
[ ] NJ Reduced Deliverable
[ ] NJ Full Deliverable
[X] NY ASP B

What State were samples collected?
NY

EDD Format:
[ ] Excel
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other:_____

State Criteria:
NY: 375 Commercial
NY: 375 Residential
NY: 375 Unrestricted

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

22F0077 Temp 2.1 °C Pg 2 of 3

Page 2 of 3
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax: 860-645-0823
[ ] Phone: 800-827-5426
[ ] Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories
Address: 120 Research Drive
Stratford, CT
(203) 325-1371

Project #: GCL40162
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCL40162

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
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OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

	Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	PFAS (21) E537 modified	250ml HDPE Plastic As Is	8oz HDPE Plastic As Is
	SB-4 (14-16`)	SOIL	5/26/2022	12:45 PM	x	1	
	SB-5 (0-2`)	SOIL	5/26/2022	9:20 AM	x	1	
	SB-5 (6-8`)	SOIL	5/26/2022	9:30 AM	x	1	
	SB-5 (14-16`)	SOIL	5/26/2022	9:40 AM	x	1	
	SB-6 (0-2`)	SOIL	5/26/2022	10:10 AM	x	1	
	SB-6 (6-8`)	SOIL	5/26/2022	10:15 AM	x	1	
	SB-6 (14-16`)	SOIL	5/26/2022	10:20 AM	x	1	
	SB-7 (0-2`)	SOIL	5/26/2022	2:16 PM	x	1	
	SB-7 (6-8`)	SOIL	5/26/2022	2:20 PM	x	2 1	
	SB-7 (14-16`)	SOIL	5/26/2022	2:25 PM	x	1 1	
	SB-8 (0-2`)	SOIL	5/26/2022	1:35 PM	x	1	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6.1.22	0700
[signature]	[signature]	6/1/22	10:47

Turnaround:
[ ] 1 Day
[ ] 2 Days
[ ] 3 Days
[ ] 5 Days
[ ] 10 Days
[X] Standard
[ ] Other_____

Report Type:
[X] Standard PDF
[ ] Full Data Package
[ ] NJ Reduced Deliverable
[ ] NJ Full Deliverable
[X] NY ASP B

EDD Format:
[ ] Excel
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other:_____

State Criteria:
NY: 375 Commercial
NY: 375 Residential
NY: 375 Unrestricted

What State were samples collected?
NY

Comments, Special Requirements or Regulations:

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Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 3 of 3
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

22F0077 Temp 2.1 °C Pg 3 of 3

Contact Options:
[ ] Fax: 860-645-0823
[ ] Phone: 800-827-5426
[ ] Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories
Address: 120 Research Drive
Stratford, CT
(203) 325-1371

Project #: GCL40162
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OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

	Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	PFAS (21) E537 modified	250ml HDPE Plastic As Is	8oz HDPE Plastic As Is
	SB-8 (6-8`)	SOIL	5/26/2022	1:40 PM	x		1
	SB-8 (14-16`)	SOIL	5/26/2022	1:50 PM	x		1
	SB-9 (0-2`)	SOIL	5/26/2022	8:50 AM	x		1
	SB-9 (6-8`)	SOIL	5/26/2022	9:05 AM	x		1
	SB-9 (14-16`)	SOIL	5/26/2022	9:15 AM	x		1
	SB-10 (0-2`)	SOIL	5/26/2022	12:55 PM	x		1
	SB-10 (6-8`)	SOIL	5/26/2022	1:00 PM	x		1
	SB-10 (14-16`)	SOIL	5/26/2022	1:10 PM	x		1
	SB-6 PFAS FB-1	LIQ	5/26/2022	10:20 AM	x	2	1
	SB-1 PFAS FB-2	SOIL	5/26/2022	10:20 AM	x	2	1
							1

Relinquished by:	Accepted by:	Date:	Time:
Kyle Bailey	[signature]	6-1-22	0700
[signature]	Michael Nagel	6/1/22	10:47

Comments, Special Requirements or Regulations:

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Report Type:
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What State were samples collected?
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[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other:_____

State Criteria:
NY: 375 Commercial
NY: 375 Residential
NY: 375 Unrestricted

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 15, 2022

Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Project ID: **1665 STILLWELL AVE**
SDG ID: **GCL45757**
Sample ID#s: **CL45757 - CL45767**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

June 15, 2022

SDG I.D.: GCL45757

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/ECD method 504 or 8011 to achieve this criteria.

SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

June 15, 2022

SDG I.D.: GCL45757

Project ID: 1665 STILLWELL AVE

Client Id	Lab Id	Matrix
GW2 FB	CL45757	GROUND WATER
TB-2	CL45758	GROUND WATER
SB-2/GW-1 (17.5`)	CL45759	GROUND WATER
SB-7/GW-2 (17.15`)	CL45760	GROUND WATER
SB-3/GW-3 (16.68`)	CL45761	GROUND WATER
SB-4/GW-4 (17.35`)	CL45762	GROUND WATER
SB-5/GW-5 (17.19`)	CL45763	GROUND WATER
SB-6/GW-6 (16.70`)	CL45764	GROUND WATER
GW FD-1	CL45765	GROUND WATER
GW FB-1	CL45766	LIQUID
EQUIPMENT BLANK 2	CL45767	LIQUID

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	9:00
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45757

Project ID: 1665 STILLWELL AVE
Client ID: GW2 FB

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.89	0.378	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.73	0.466	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.89	0.527	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.89	0.501	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.89	0.544	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.89	0.393	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.89	0.280	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	ND	1.89	0.278	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.89	0.496	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.89	0.736	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	1.92	1.89	0.601	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.89	0.266	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	1.89	0.446	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	ND	1.89	1.54	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.89	0.544	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.89	0.277	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	1.89	0.503	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	1.89	0.428	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.89	0.503	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.89	1.30	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.89	0.622	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	48.3			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	50.7			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	131			%	1	06/09/22	***	25 - 200 %	C

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: GW2 FB

Phoenix I.D.: CL45757

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M2-8:2FTS	68.0			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	30.3			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	87.3			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	71.9			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	65.9			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	73.4			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	74.8			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	61.0			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	58.0			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	31.2			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	61.3			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	54.4			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	68.5			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	79.8			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	47.9			%	1	06/09/22	***	25 - 150 %	C

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

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Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45758

Project ID: 1665 STILLWELL AVE
Client ID: TB-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Hexanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	

Project ID: 1665 STILLWELL AVE
Client ID: TB-2

Phoenix I.D.: CL45758

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	25	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acrylonitrile	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromoform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon Disulfide	ND	5.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methylene chloride	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	06/01/22	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Total Xylenes	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97			%	1	06/01/22	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	06/01/22	MH	70 - 130 %	
% Dibromofluoromethane	86			%	1	06/01/22	MH	70 - 130 %	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: TB-2

Phoenix I.D.: CL45758

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97			%	1	06/01/22	MH	70 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 15, 2022

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	14:00
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45759

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	0.025	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.149	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	101	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.005	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	1.16	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	5.8	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	40.8	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	4.75	0.011	0.011	mg/L	10	06/03/22	CPP	SW6010D
Sodium (Dissolved)	120	1.1	1.1	mg/L	10	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.083	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.004	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Phoenix I.D.: CL45759

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.85	0.369	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.63	0.456	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.85	0.516	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.85	0.490	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.85	0.531	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.25	1.85	0.384	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.85	0.274	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	7.56	1.85	0.272	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.85	0.485	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.85	0.719	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	13.0	1.85	0.588	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	14.1	1.85	0.260	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	13.6	1.85	0.436	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	2.95	1.85	1.51	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.85	0.531	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	10.4	1.85	0.270	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	48.2	1.85	0.492	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	15.0	1.85	0.419	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.85	0.492	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.85	1.27	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.85	0.608	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	90.4			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	113			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	264			%	1	06/09/22	***	25 - 200 %	C,3
% M2-8:2FTS	247			%	1	06/09/22	***	25 - 200 %	C,3
% M2PFTeDA	89.3			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	96.7			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	104			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	46.5			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	36.4			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	43.7			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	85.7			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	103			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	14.5			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	65.1			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	113			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	90.9			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	32.7			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	91.7			%	1	06/09/22	***	25 - 150 %	C
Chlorinated Herbicides									
2,4,5-T	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Phoenix I.D.: CL45759

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4,5-TP (Silvex)	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.8	4.8	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	48	48	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.8	4.8	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.8	4.8	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	71			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	83			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.30	0.30	ug/L	10	06/06/22	AW	SW8081B	
a-BHC	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
a-chlordane	ND	0.10	0.10	ug/L	10	06/06/22	AW	SW8081B	
Alachlor	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	1
Aldrin	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
b-BHC	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
Chlordane	ND	0.21	0.21	ug/L	10	06/06/22	AW	SW8081B	
d-BHC	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
Dieldrin	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	
Endrin	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.10	0.10	ug/L	10	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.10	0.10	ug/L	10	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.004	0.004	ug/L	10	06/06/22	AW	SW8081B	
g-chlordane	ND	0.021	0.021	ug/L	10	06/06/22	AW	SW8081B	
Heptachlor	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.052	0.052	ug/L	10	06/06/22	AW	SW8081B	
Methoxychlor	ND	1.0	1.0	ug/L	10	06/06/22	AW	SW8081B	
Toxaphene	ND	2.1	2.1	ug/L	10	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	79			%	10	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	94			%	10	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	106			%	10	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	143			%	10	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1221	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1232	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1242	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1248	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1254	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1260	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
PCB-1262	ND	0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Phoenix I.D.: CL45759

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1268	ND		0.052	0.052	ug/L	1	06/06/22	SC	SW8082A	
QA/QC Surrogates										
% DCBP	76				%	1	06/06/22	SC	30 - 150 %	
% DCBP (Confirmation)	71				%	1	06/06/22	SC	30 - 150 %	
% TCMX	81				%	1	06/06/22	SC	30 - 150 %	
% TCMX (Confirmation)	78				%	1	06/06/22	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,1-Trichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloropropene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trimethylbenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND		1.0	1.0	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromoethane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichlorobenzene	0.73	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloropropane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3,5-Trimethylbenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,4-Dichlorobenzene	0.50	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2,2-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Hexanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
2-Isopropyltoluene	8.6		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	1
4-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
4-Methyl-2-pentanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acetone	ND		50	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acrylonitrile	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Benzene	ND		0.70	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromochloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromodichloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromoform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon Disulfide	ND		10	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon tetrachloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chlorobenzene	0.54	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Phoenix I.D.: CL45759

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Dibromochloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dibromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dichlorodifluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Ethylbenzene	0.68	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Hexachlorobutadiene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
Isopropylbenzene	50		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
m&p-Xylene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methyl ethyl ketone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Methyl t-butyl ether (MTBE)	1.8	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methylene chloride	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
Naphthalene	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
n-Butylbenzene	6.4		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
n-Propylbenzene	83		20	5.0	ug/L	20	06/01/22	HM	SW8260C	
o-Xylene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
p-Isopropyltoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
sec-Butylbenzene	17		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Styrene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
tert-Butylbenzene	2.5		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrachloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	1
Toluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Total Xylenes	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	
Trichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorofluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorotrifluoroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Vinyl chloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (2x)	96				%	2	06/02/22	HM	70 - 130 %	
% Bromofluorobenzene (2x)	96				%	2	06/02/22	HM	70 - 130 %	
% Dibromofluoromethane (2x)	88				%	2	06/02/22	HM	70 - 130 %	
% Toluene-d8 (2x)	99				%	2	06/02/22	HM	70 - 130 %	
% 1,2-dichlorobenzene-d4 (20x)	100				%	20	06/01/22	HM	70 - 130 %	
% Bromofluorobenzene (20x)	92				%	20	06/01/22	HM	70 - 130 %	
% Dibromofluoromethane (20x)	96				%	20	06/01/22	HM	70 - 130 %	
% Toluene-d8 (20x)	98				%	20	06/01/22	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.20	0.20	ug/l	1	06/07/22	AW	SW8270DSIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	89				%	1	06/07/22	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.5	3.5	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
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Phoenix I.D.: CL45759

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	06/07/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Chlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	06/07/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2-Nitroaniline	ND	5.0	2.0	ug/L	1	06/07/22	WB	SW8270D	
2-Nitrophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	2.4	ug/L	1	06/07/22	WB	SW8270D	
3-Nitroaniline	ND	5.0	2.0	ug/L	1	06/07/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	06/07/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
4-Chloroaniline	ND	3.5	2.3	ug/L	1	06/07/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	06/07/22	WB	SW8270D	
4-Nitroaniline	ND	5.0	1.7	ug/L	1	06/07/22	WB	SW8270D	
4-Nitrophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
Acenaphthene	ND	5.0	1.5	ug/L	1	06/07/22	WB	SW8270D	
Acetophenone	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
Aniline	ND	3.5	3.5	ug/L	1	06/07/22	WB	SW8270D	
Anthracene	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
Benzidine	ND	4.5	2.9	ug/L	1	06/07/22	WB	SW8270D	
Benzoic acid	ND	25	10	ug/L	1	06/07/22	WB	SW8270D	
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
Carbazole	ND	5.0	3.8	ug/L	1	06/07/22	WB	SW8270D	
Dibenzofuran	ND	5.0	1.5	ug/L	1	06/07/22	WB	SW8270D	
Diethyl phthalate	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
Dimethylphthalate	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	06/07/22	WB	SW8270D	
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	06/07/22	WB	SW8270D	
Fluoranthene	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
Fluorene	ND	5.0	1.7	ug/L	1	06/07/22	WB	SW8270D	
Hexachloroethane	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
Isophorone	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D	
Naphthalene	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	06/07/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.5	2.5	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Phoenix I.D.: CL45759

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	5.0	1.7	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	10	1.2	ug/L	1	06/07/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	91			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	64			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	62			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	61			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	55			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	68			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.40	0.40	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	98			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	65			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	73			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	56			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	82			%	1	06/06/22	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					06/03/22	G/G	

Project ID: 1665 STILLWELL AVE
Client ID: SB-2/GW-1 (17.5`)

Phoenix I.D.: CL45759

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the affected compounds.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	16:00
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45760

Project ID: 1665 STILLWELL AVE
Client ID: SB-7/GW-2 (17.15`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/03/22	CPP	SW6010D
Aluminum (Dissolved)	0.011	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.108	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	36.1	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	0.041	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	3.8	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	13.6	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	0.970	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium (Dissolved)	292	1.1	1.1	mg/L	10	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.010	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/03/22	CPP	SW6010D
Zinc (Dissolved)	ND	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Client MS/MSD	Completed					06/06/22		
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-7/GW-2 (17.15`)

Phoenix I.D.: CL45760

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C

PFAS (21)

1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.79	0.356	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.46	0.439	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.79	0.497	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.79	0.472	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.79	0.512	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.79	0.371	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.79	0.264	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	4.52	1.79	0.262	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.79	0.468	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.79	0.694	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	ND	1.79	0.567	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	4.65	1.79	0.251	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	ND	1.79	0.421	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	8.62	1.79	1.46	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.79	0.512	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	13.1	1.79	0.261	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	14.6	1.79	0.474	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	ND	1.79	0.404	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.79	0.474	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.79	1.22	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.79	0.587	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	68.4			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	70.1			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	109			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	94.1			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	60.0			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	92.1			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	87.3			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	65.6			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	68.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	74.1			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	63.6			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	75.5			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	4.25			%	1	06/09/22	***	10 - 150 %	C,3
% M8PFOA	68.9			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	95.2			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	77.4			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	75.8			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	60.1			%	1	06/09/22	***	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Chlorinated Herbicides									
2,4,5-T	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4,5-TP (Silvex)	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	47	47	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	54			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	58			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	06/06/22	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	06/06/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Methoxychlor	ND	0.095	0.095	ug/L	1	06/06/22	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	67			%	1	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	69			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	93			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	96			%	1	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	

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PCB-1254	ND		0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1260	ND		0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1262	ND		0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1268	ND		0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
QA/QC Surrogates										
% DCBP	88				%	1	06/06/22	SC	30 - 150 %	
% DCBP (Confirmation)	85				%	1	06/06/22	SC	30 - 150 %	
% TCMX	81				%	1	06/06/22	SC	30 - 150 %	
% TCMX (Confirmation)	83				%	1	06/06/22	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,1-Dichloroethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	06/02/22	HM	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2-Dichloroethane	ND		0.60	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
2-Hexanone	ND		5.0	2.5	ug/L	1	06/02/22	HM	SW8260C	
2-Isopropyltoluene	2.2		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
4-Methyl-2-pentanone	ND		5.0	2.5	ug/L	1	06/02/22	HM	SW8260C	
Acetone	30	S	25	2.5	ug/L	1	06/02/22	HM	SW8260C	
Acrylonitrile	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	06/02/22	HM	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Bromodichloromethane	ND		0.50	0.25	ug/L	1	06/02/22	HM	SW8260C	
Bromoform	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Bromomethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Carbon Disulfide	ND		5.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Chlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Chloroethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Chloroform	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	

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Chloromethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/02/22	HM	SW8260C	
Dibromochloromethane	ND		0.50	0.25	ug/L	1	06/02/22	HM	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Hexachlorobutadiene	ND		0.40	0.25	ug/L	1	06/02/22	HM	SW8260C	
Isopropylbenzene	3.7		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Methyl ethyl ketone	ND		5.0	2.5	ug/L	1	06/02/22	HM	SW8260C	
Methyl t-butyl ether (MTBE)	0.46	J	1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Methylene chloride	ND		1.0	1.0	ug/L	1	06/02/22	HM	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	06/02/22	HM	SW8260C	
n-Butylbenzene	2.7		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
n-Propylbenzene	4.6		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
sec-Butylbenzene	2.4		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
tert-Butylbenzene	0.85	J	1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Tetrahydrofuran (THF)	ND		2.5	2.5	ug/L	1	06/02/22	HM	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Total Xylenes	ND		1.0	1.0	ug/L	1	06/02/22	HM	SW8260C	
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/02/22	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	2.5	ug/L	1	06/02/22	HM	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	06/02/22	HM	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	96				%	1	06/02/22	HM	70 - 130 %	
% Bromofluorobenzene	99				%	1	06/02/22	HM	70 - 130 %	
% Dibromofluoromethane	84				%	1	06/02/22	HM	70 - 130 %	
% Toluene-d8	100				%	1	06/02/22	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.20	0.20	ug/l	1	06/07/22	AW	SW8270DSIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	97				%	1	06/07/22	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,4-Dichlorobenzene	ND		0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	

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2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
2-Chlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
2-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	06/07/22	WB	SW8270D	
3-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
4-Chloroaniline	ND	3.3	2.2	ug/L	1	06/07/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Aniline	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
Anthracene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Benzidine	ND	4.2	2.8	ug/L	1	06/07/22	WB	SW8270D	
Benzoic acid	ND	24	9.4	ug/L	1	06/07/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	06/07/22	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D	
Fluoranthene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Fluorene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	06/07/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D	
Phenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
Client ID: SB-7/GW-2 (17.15`)

Phoenix I.D.: CL45760

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.4	1.2	ug/L	1	06/07/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	84			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	64			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	65			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	55			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	60			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	73			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	95			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	64			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	63			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	72			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	70			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	90			%	1	06/06/22	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					06/03/22	G/G	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	13:55
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45761

Project ID: 1665 STILLWELL AVE
Client ID: SB-3/GW-3 (16.68`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	0.016	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.114	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	38.5	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	3.13	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	4.3	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	15.0	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	6.17	0.011	0.011	mg/L	10	06/03/22	CPP	SW6010D
Sodium (Dissolved)	140	1.1	1.1	mg/L	10	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.005	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	0.003	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.003	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-3/GW-3 (16.68`)

Phoenix I.D.: CL45761

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.85	0.369	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.63	0.456	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.85	0.516	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.85	0.490	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.85	0.531	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.85	0.384	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.85	0.274	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	6.73	1.85	0.272	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.85	0.485	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.85	0.719	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	12.9	1.85	0.588	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	7.25	1.85	0.260	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	15.9	1.85	0.436	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	13.8	1.85	1.51	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.85	0.531	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	11.8	1.85	0.270	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	45.8	1.85	0.492	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	16.3	1.85	0.419	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.85	0.492	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.85	1.27	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.85	0.608	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	71.5			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	85.1			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	147			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	121			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	77.6			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	84.8			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	91.8			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	54.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	54.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	62.0			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	71.3			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	77.0			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	1.80			%	1	06/09/22	***	10 - 150 %	C,3
% M8PFOA	65.8			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	95.2			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	76.3			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	62.0			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	71.7			%	1	06/09/22	***	25 - 150 %	C
Chlorinated Herbicides									
2,4,5-T	ND	2.5	2.5	ug/L	10	06/06/22	PS	SW8151A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-3/GW-3 (16.68`)

Phoenix I.D.: CL45761

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4,5-TP (Silvex)	ND	2.5	2.5	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.9	4.9	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	49	49	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.5	2.5	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.5	2.5	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.9	4.9	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.9	4.9	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	72			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	78			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	06/06/22	AW	SW8081B	1
Aldrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	06/06/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Methoxychlor	ND	0.095	0.095	ug/L	1	06/06/22	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	65			%	1	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	43			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	Interference			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	69			%	1	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-3/GW-3 (16.68`)

Phoenix I.D.: CL45761

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1268	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
QA/QC Surrogates										
% DCBP	84				%	1	06/07/22	SC	30 - 150 %	
% DCBP (Confirmation)	73				%	1	06/07/22	SC	30 - 150 %	
% TCMX	79				%	1	06/07/22	SC	30 - 150 %	
% TCMX (Confirmation)	76				%	1	06/07/22	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,1-Trichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloropropene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trimethylbenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND		1.0	1.0	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromoethane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloropropane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3,5-Trimethylbenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2,2-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Hexanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
2-Isopropyltoluene	7.3		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	1
4-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
4-Methyl-2-pentanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acetone	ND		50	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acrylonitrile	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Benzene	0.69	J	0.70	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromochloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromodichloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromoform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon Disulfide	ND		10	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon tetrachloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-3/GW-3 (16.68`)

Phoenix I.D.: CL45761

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Dibromochloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dibromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dichlorodifluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Ethylbenzene	0.97	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Hexachlorobutadiene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
Isopropylbenzene	100		20	5.0	ug/L	20	06/01/22	HM	SW8260C	
m&p-Xylene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methyl ethyl ketone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methylene chloride	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
Naphthalene	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
n-Butylbenzene	12		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
n-Propylbenzene	140		20	5.0	ug/L	20	06/01/22	HM	SW8260C	
o-Xylene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
p-Isopropyltoluene	0.53	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
sec-Butylbenzene	11		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Styrene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
tert-Butylbenzene	3.1		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrachloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	1
Toluene	0.61	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Total Xylenes	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	
Trichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorofluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorotrifluoroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Vinyl chloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (2x)	97				%	2	06/02/22	HM	70 - 130 %	
% Bromofluorobenzene (2x)	96				%	2	06/02/22	HM	70 - 130 %	
% Dibromofluoromethane (2x)	92				%	2	06/02/22	HM	70 - 130 %	
% Toluene-d8 (2x)	108				%	2	06/02/22	HM	70 - 130 %	
% 1,2-dichlorobenzene-d4 (20x)	101				%	20	06/01/22	HM	70 - 130 %	
% Bromofluorobenzene (20x)	94				%	20	06/01/22	HM	70 - 130 %	
% Dibromofluoromethane (20x)	93				%	20	06/01/22	HM	70 - 130 %	
% Toluene-d8 (20x)	100				%	20	06/01/22	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.20	0.20	ug/l	1	06/07/22	AW	SW8270DSIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	96				%	1	06/07/22	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.4	3.4	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.8	1.9	ug/L	1	06/07/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Chlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2-Nitroaniline	ND	4.8	1.9	ug/L	1	06/07/22	WB	SW8270D	
2-Nitrophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.8	2.3	ug/L	1	06/07/22	WB	SW8270D	
3-Nitroaniline	ND	4.8	1.9	ug/L	1	06/07/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
4-Chloroaniline	ND	3.4	2.2	ug/L	1	06/07/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitroaniline	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitrophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Acenaphthene	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Acetophenone	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Aniline	ND	3.4	3.4	ug/L	1	06/07/22	WB	SW8270D	
Anthracene	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
Benzidine	ND	4.3	2.8	ug/L	1	06/07/22	WB	SW8270D	
Benzoic acid	ND	24	9.6	ug/L	1	06/07/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.8	1.2	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Carbazole	ND	4.8	3.6	ug/L	1	06/07/22	WB	SW8270D	
Dibenzofuran	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
Diethyl phthalate	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Dimethylphthalate	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.8	1.2	ug/L	1	06/07/22	WB	SW8270D	
Fluoranthene	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
Fluorene	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
Hexachloroethane	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Isophorone	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	
Naphthalene	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.8	1.8	ug/L	1	06/07/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
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Phoenix I.D.: CL45761

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	4.8	1.7	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.6	1.2	ug/L	1	06/07/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	82			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	59			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	52			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	56			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	53			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	70			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	98			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	63			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	58			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	69			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	61			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	83			%	1	06/06/22	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					06/03/22	G/G	

Project ID: 1665 STILLWELL AVE
Client ID: SB-3/GW-3 (16.68`)

Phoenix I.D.: CL45761

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	16:40
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45762

Project ID: 1665 STILLWELL AVE
Client ID: SB-4/GW-4 (17.35`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	ND	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.139	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	45.2	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	ND	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	5.5	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	14.4	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	1.87	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium (Dissolved)	394	11	11	mg/L	100	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.007	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	0.002	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.002	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

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Project ID: 1665 STILLWELL AVE
Client ID: SB-4/GW-4 (17.35`)

Phoenix I.D.: CL45762

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.85	0.369	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.63	0.456	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.85	0.516	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.85	0.490	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.85	0.531	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.85	0.384	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.85	0.274	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	7.07	1.85	0.272	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.85	0.485	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.85	0.719	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	4.98	1.85	0.588	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	5.69	1.85	0.260	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	7.67	1.85	0.436	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	20.2	1.85	1.51	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.85	0.531	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	14.1	1.85	0.270	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	43.6	1.85	0.492	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	7.26	1.85	0.419	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.85	0.492	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.85	1.27	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.85	0.608	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	62.3			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	65.1			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	109			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	89.4			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	68.7			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	91.0			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	89.7			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	64.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	70.2			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	72.0			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	68.1			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	70.0			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	6.64			%	1	06/09/22	***	10 - 150 %	C,3
% M8PFOA	65.4			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	83.4			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	75.8			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	73.5			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	65.8			%	1	06/09/22	***	25 - 150 %	C
Chlorinated Herbicides									
2,4,5-T	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	

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Phoenix I.D.: CL45762

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4,5-TP (Silvex)	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	47	47	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	77			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	76			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	06/06/22	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	06/06/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Methoxychlor	ND	0.095	0.095	ug/L	1	06/06/22	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	57			%	1	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	51			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	96			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	79			%	1	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1268	ND		0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
QA/QC Surrogates										
% DCBP	72				%	1	06/06/22	SC	30 - 150 %	
% DCBP (Confirmation)	64				%	1	06/06/22	SC	30 - 150 %	
% TCMX	86				%	1	06/06/22	SC	30 - 150 %	
% TCMX (Confirmation)	84				%	1	06/06/22	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,1-Trichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloropropene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trimethylbenzene	0.55	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND		1.0	1.0	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromoethane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloropropane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3,5-Trimethylbenzene	0.51	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2,2-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Hexanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
2-Isopropyltoluene	8.0		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	1
4-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
4-Methyl-2-pentanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acetone	ND		50	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acrylonitrile	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Benzene	ND		0.70	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromochloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromodichloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromoform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon Disulfide	ND		10	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon tetrachloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Dibromochloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dibromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dichlorodifluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Ethylbenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Hexachlorobutadiene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
Isopropylbenzene	40		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
m&p-Xylene	1.4	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methyl ethyl ketone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methylene chloride	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
Naphthalene	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
n-Butylbenzene	14		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
n-Propylbenzene	100		20	5.0	ug/L	20	06/01/22	HM	SW8260C	
o-Xylene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
p-Isopropyltoluene	1.4	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
sec-Butylbenzene	15		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Styrene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
tert-Butylbenzene	3.1		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrachloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	1
Toluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Total Xylenes	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	
Trichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorofluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorotrifluoroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Vinyl chloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (2x)	95				%	2	06/02/22	HM	70 - 130 %	
% Bromofluorobenzene (2x)	99				%	2	06/02/22	HM	70 - 130 %	
% Dibromofluoromethane (2x)	86				%	2	06/02/22	HM	70 - 130 %	
% Toluene-d8 (2x)	105				%	2	06/02/22	HM	70 - 130 %	
% 1,2-dichlorobenzene-d4 (20x)	97				%	20	06/01/22	HM	70 - 130 %	
% Bromofluorobenzene (20x)	95				%	20	06/01/22	HM	70 - 130 %	
% Dibromofluoromethane (20x)	92				%	20	06/01/22	HM	70 - 130 %	
% Toluene-d8 (20x)	98				%	20	06/01/22	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.20	0.20	ug/l	1	06/07/22	AW	SW8270DSIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	88				%	1	06/07/22	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
2-Chlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
2-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	06/07/22	WB	SW8270D	
3-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
4-Chloroaniline	ND	3.3	2.2	ug/L	1	06/07/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Aniline	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
Anthracene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Benzidine	ND	4.2	2.8	ug/L	1	06/07/22	WB	SW8270D	
Benzoic acid	ND	24	9.4	ug/L	1	06/07/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	06/07/22	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D	
Fluoranthene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Fluorene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	06/07/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
Client ID: SB-4/GW-4 (17.35`)

Phoenix I.D.: CL45762

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.4	1.2	ug/L	1	06/07/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	90			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	62			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	69			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	65			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	66			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	69			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	100			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	61			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	72			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	79			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	65			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	84			%	1	06/06/22	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					06/03/22	G/G	

Project ID: 1665 STILLWELL AVE
Client ID: SB-4/GW-4 (17.35`)

Phoenix I.D.: CL45762

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	15:20
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45763

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	ND	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	0.004	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.177	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	44.6	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.002	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	0.608	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	4.3	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	22.3	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	2.68	0.011	0.011	mg/L	10	06/03/22	CPP	SW6010D
Sodium (Dissolved)	158	1.1	1.1	mg/L	10	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.015	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	0.005	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.003	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Phoenix I.D.: CL45763

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.89	0.378	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.73	0.466	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.89	0.527	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.89	0.501	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.89	0.544	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.89	0.393	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.89	0.280	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	2.65	1.89	0.278	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.89	0.496	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.89	0.736	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	13.9	1.89	0.601	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	5.07	1.89	0.266	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	10.7	1.89	0.446	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	12.4	1.89	1.54	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.89	0.544	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	20.0	1.89	0.277	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	44.2	1.89	0.503	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	13.6	1.89	0.428	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.89	0.503	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.89	1.30	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.89	0.622	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	114			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	147			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	316			%	1	06/09/22	***	25 - 200 %	C,3
% M2-8:2FTS	318			%	1	06/09/22	***	25 - 200 %	C,3
% M2PFTeDA	120			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	117			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	129			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	47.8			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	42.0			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	55.5			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	108			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	125			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	32.3			%	1	06/09/22	***	10 - 150 %	C
% M8PFOA	73.0			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	133			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	92.7			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	48.3			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	114			%	1	06/09/22	***	25 - 150 %	C
Chlorinated Herbicides									
2,4,5-T	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Phoenix I.D.: CL45763

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4,5-TP (Silvex)	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	47	47	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	73			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	81			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
a-BHC	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
a-chlordane	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
Alachlor	ND	0.047	0.047	ug/L	10	06/06/22	AW	SW8081B	1
Aldrin	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
b-BHC	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
Chlordane	ND	0.19	0.19	ug/L	10	06/06/22	AW	SW8081B	
d-BHC	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
Dieldrin	ND	0.019	0.019	ug/L	10	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
Endrin	ND	0.047	0.047	ug/L	10	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.047	0.047	ug/L	10	06/06/22	AW	SW8081B	
g-chlordane	ND	0.095	0.095	ug/L	10	06/06/22	AW	SW8081B	
Heptachlor	ND	0.047	0.047	ug/L	10	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.047	0.047	ug/L	10	06/06/22	AW	SW8081B	
Methoxychlor	ND	0.95	0.95	ug/L	10	06/06/22	AW	SW8081B	
Toxaphene	ND	1.9	1.9	ug/L	10	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	75			%	10	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	73			%	10	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	110			%	10	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	112			%	10	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Phoenix I.D.: CL45763

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1268	ND	0.048	0.048	ug/L	1	06/06/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	82			%	1	06/06/22	SC	30 - 150 %	
% DCBP (Confirmation)	71			%	1	06/06/22	SC	30 - 150 %	
% TCMX	84			%	1	06/06/22	SC	30 - 150 %	
% TCMX (Confirmation)	78			%	1	06/06/22	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Hexanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
2-Isopropyltoluene	2.7	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acetone	ND	25	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acrylonitrile	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromoform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon Disulfide	ND	5.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Phoenix I.D.: CL45763

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methylene chloride	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
tert-Butylbenzene	1.1	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrachloroethene	1.0	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	06/01/22	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Total Xylenes	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Trichloroethene	1.0	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	06/01/22	MH	70 - 130 %	
% Bromofluorobenzene	94			%	1	06/01/22	MH	70 - 130 %	
% Dibromofluoromethane	84			%	1	06/01/22	MH	70 - 130 %	
% Toluene-d8	101			%	1	06/01/22	MH	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	0.20	0.20	ug/l	1	06/07/22	AW	SW8270DSIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	91			%	1	06/07/22	AW	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Phoenix I.D.: CL45763

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4-Dichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dimethylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dinitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
2-Chlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D
2-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	06/07/22	WB	SW8270D
3-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
4-Chloroaniline	ND	3.3	2.2	ug/L	1	06/07/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
4-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Aniline	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D
Anthracene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Benzidine	ND	4.2	2.8	ug/L	1	06/07/22	WB	SW8270D
Benzoic acid	ND	24	9.4	ug/L	1	06/07/22	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Carbazole	ND	4.7	3.6	ug/L	1	06/07/22	WB	SW8270D
Dibenzofuran	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
Diethyl phthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Dimethylphthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D
Fluoranthene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Fluorene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Hexachloroethane	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Isophorone	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
Naphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	06/07/22	WB	SW8270D
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D
Phenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.4	1.2	ug/L	1	06/07/22	WB	SW8270D

QA/QC Surrogates

Project ID: 1665 STILLWELL AVE
Client ID: SB-5/GW-5 (17.19`)

Phoenix I.D.: CL45763

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% 2,4,6-Tribromophenol	88			%	1	06/07/22	WB	15 - 110 %	
% 2-Fluorobiphenyl	64			%	1	06/07/22	WB	30 - 130 %	
% 2-Fluorophenol	58			%	1	06/07/22	WB	15 - 110 %	
% Nitrobenzene-d5	57			%	1	06/07/22	WB	30 - 130 %	
% Phenol-d5	14			%	1	06/07/22	WB	15 - 110 %	3
% Terphenyl-d14	63			%	1	06/07/22	WB	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)	
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Pentachlorophenol	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
Phenanthrene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	107			%	1	06/06/22	WB	15 - 110 %	
% 2-Fluorobiphenyl	66			%	1	06/06/22	WB	30 - 130 %	
% 2-Fluorophenol	57			%	1	06/06/22	WB	15 - 110 %	
% Nitrobenzene-d5	64			%	1	06/06/22	WB	30 - 130 %	
% Phenol-d5	18			%	1	06/06/22	WB	15 - 110 %	
% Terphenyl-d14	72			%	1	06/06/22	WB	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					06/03/22	G/G		

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the affected compounds.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	13:00
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45764

Project ID: 1665 STILLWELL AVE
Client ID: SB-6/GW-6 (16.70`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	0.015	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.075	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	35.8	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	1.45	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	3.6	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	18.1	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	3.03	0.011	0.011	mg/L	10	06/03/22	CPP	SW6010D
Sodium (Dissolved)	57.6	1.1	1.1	mg/L	10	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.004	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.003	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

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Phoenix I.D.: CL45764

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
PFAS (21)	Completed					06/09/22	***	EPA 537m	C
PFAS (21)									
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	1.92	0.384	ng/L	1	06/09/22	***	EPA 537m	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	4.81	0.473	ng/L	1	06/09/22	***	EPA 537m	C
NEtFOSAA	ND	1.92	0.536	ng/L	1	06/09/22	***	EPA 537m	C
NMeFOSAA	ND	1.92	0.509	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.92	0.552	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.04	1.92	0.399	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.92	0.285	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorobutanesulfonic acid (PFBS)	9.27	1.92	0.283	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorodecanoic acid (PFDA)	ND	1.92	0.504	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorododecanoic acid (PFDoA)	ND	1.92	0.747	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroheptanoic acid (PFHpA)	30.3	1.92	0.611	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	16.1	1.92	0.270	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorohexanoic acid (PFHxA)	58.2	1.92	0.453	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoro-n-butanoic acid (PFBA)	23.6	1.92	1.57	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	5.95	1.92	0.552	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	130	1.92	0.281	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	222	1.92	0.511	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoropentanoic acid (PFPeA)	54.7	1.92	0.435	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotetradecanoic acid (PFTA)	ND	1.92	0.511	ng/L	1	06/09/22	***	EPA 537m	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.92	1.32	ng/L	1	06/09/22	***	EPA 537m	C
Perfluoroundecanoic acid (PFUnA)	ND	1.92	0.632	ng/L	1	06/09/22	***	EPA 537m	C
QA/QC Surrogates									
% d3-N-MeFOSAA	70.7			%	1	06/09/22	***	25 - 150 %	C
% d5-NEtFOSA	80.6			%	1	06/09/22	***	25 - 150 %	C
% M2-6:2FTS	154			%	1	06/09/22	***	25 - 200 %	C
% M2-8:2FTS	133			%	1	06/09/22	***	25 - 200 %	C
% M2PFTeDA	78.4			%	1	06/09/22	***	10 - 150 %	C
% M3PFBS	94.0			%	1	06/09/22	***	25 - 150 %	C
% M3PFHxS	93.2			%	1	06/09/22	***	25 - 150 %	C
% M4PFHpA	60.3			%	1	06/09/22	***	25 - 150 %	C
% M5PFHxA	65.6			%	1	06/09/22	***	25 - 150 %	C
% M5PFPeA	73.2			%	1	06/09/22	***	25 - 150 %	C
% M6PFDA	75.0			%	1	06/09/22	***	25 - 150 %	C
% M7PFUdA	82.7			%	1	06/09/22	***	25 - 150 %	C
% M8FOSA	7.30			%	1	06/09/22	***	10 - 150 %	C,3
% M8PFOA	64.1			%	1	06/09/22	***	25 - 150 %	C
% M8PFOS	108			%	1	06/09/22	***	25 - 150 %	C
% M9PFNA	83.0			%	1	06/09/22	***	25 - 150 %	C
% MPFBA	76.5			%	1	06/09/22	***	25 - 150 %	C
% MPFDoA	69.6			%	1	06/09/22	***	25 - 150 %	C
Chlorinated Herbicides									
2,4,5-T	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4,5-TP (Silvex)	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	47	47	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.7	4.7	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	78			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	83			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	06/06/22	AW	SW8081B	1
Aldrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	06/06/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Methoxychlor	ND	0.095	0.095	ug/L	1	06/06/22	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	53			%	1	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	53			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	87			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	73			%	1	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1268	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
QA/QC Surrogates										
% DCBP	80				%	1	06/07/22	SC	30 - 150 %	
% DCBP (Confirmation)	70				%	1	06/07/22	SC	30 - 150 %	
% TCMX	72				%	1	06/07/22	SC	30 - 150 %	
% TCMX (Confirmation)	69				%	1	06/07/22	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,1,1-Trichloroethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,1-Dichloroethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	06/02/22	MH	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2-Dichlorobenzene	0.49	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2-Dichloroethane	ND		0.60	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
2-Hexanone	ND		5.0	2.5	ug/L	1	06/02/22	MH	SW8260C	
2-Isopropyltoluene	4.9		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
4-Methyl-2-pentanone	ND		5.0	2.5	ug/L	1	06/02/22	MH	SW8260C	
Acetone	ND		25	2.5	ug/L	1	06/02/22	MH	SW8260C	
Acrylonitrile	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Benzene	2.1		0.70	0.25	ug/L	1	06/02/22	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Bromodichloromethane	ND		0.50	0.25	ug/L	1	06/02/22	MH	SW8260C	
Bromoform	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Bromomethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Carbon Disulfide	ND		5.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Chlorobenzene	0.62	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Chloroethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Chloroform	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Chloromethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
cis-1,2-Dichloroethene	0.48	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/02/22	MH	SW8260C	

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Dibromochloromethane	ND		0.50	0.25	ug/L	1	06/02/22	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Ethylbenzene	0.34	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Hexachlorobutadiene	ND		0.40	0.25	ug/L	1	06/02/22	MH	SW8260C	
Isopropylbenzene	27		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
m&p-Xylene	0.26	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Methyl ethyl ketone	ND		5.0	2.5	ug/L	1	06/02/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.51	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Methylene chloride	ND		1.0	1.0	ug/L	1	06/02/22	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	06/02/22	MH	SW8260C	
n-Butylbenzene	2.5		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
n-Propylbenzene	26		5.0	1.3	ug/L	5	06/06/22	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
sec-Butylbenzene	4.3		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
tert-Butylbenzene	1.4		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Tetrachloroethene	0.46	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND		2.5	2.5	ug/L	1	06/02/22	MH	SW8260C	1
Toluene	0.31	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Total Xylenes	ND		1.0	1.0	ug/L	1	06/02/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/02/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	2.5	ug/L	1	06/02/22	MH	SW8260C	
Trichloroethene	0.92	J	1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	06/02/22	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	06/02/22	MH	70 - 130 %	
% Bromofluorobenzene	106				%	1	06/02/22	MH	70 - 130 %	
% Dibromofluoromethane	86				%	1	06/02/22	MH	70 - 130 %	
% Toluene-d8	103				%	1	06/02/22	MH	70 - 130 %	
% 1,2-dichlorobenzene-d4 (5x)	102				%	5	06/06/22	MH	70 - 130 %	
% Bromofluorobenzene (5x)	98				%	5	06/06/22	MH	70 - 130 %	
% Dibromofluoromethane (5x)	90				%	5	06/06/22	MH	70 - 130 %	
% Toluene-d8 (5x)	98				%	5	06/06/22	MH	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.40	0.40	ug/l	1	06/07/22	AW	SW8270DSIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	98				%	1	06/07/22	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.4	3.4	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND		4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND		0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.8	1.9	ug/L	1	06/07/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Chlorophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
2-Nitroaniline	ND	4.8	1.9	ug/L	1	06/07/22	WB	SW8270D	
2-Nitrophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.8	2.3	ug/L	1	06/07/22	WB	SW8270D	
3-Nitroaniline	ND	4.8	1.9	ug/L	1	06/07/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
4-Chloroaniline	ND	3.4	2.2	ug/L	1	06/07/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitroaniline	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitrophenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Acenaphthene	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Acetophenone	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Aniline	ND	3.4	3.4	ug/L	1	06/07/22	WB	SW8270D	
Anthracene	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
Benzidine	ND	4.3	2.8	ug/L	1	06/07/22	WB	SW8270D	
Benzoic acid	ND	24	9.6	ug/L	1	06/07/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.8	1.2	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Carbazole	ND	4.8	3.6	ug/L	1	06/07/22	WB	SW8270D	
Dibenzofuran	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
Diethyl phthalate	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Dimethylphthalate	ND	4.8	1.5	ug/L	1	06/07/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.8	1.2	ug/L	1	06/07/22	WB	SW8270D	
Fluoranthene	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
Fluorene	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
Hexachloroethane	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D	
Isophorone	ND	4.8	1.3	ug/L	1	06/07/22	WB	SW8270D	
Naphthalene	ND	4.8	1.4	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.8	1.6	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodiphenylamine	ND	4.8	1.8	ug/L	1	06/07/22	WB	SW8270D	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D	

Project ID: 1665 STILLWELL AVE
Client ID: SB-6/GW-6 (16.70`)

Phoenix I.D.: CL45764

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	0.96	0.96	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	4.8	1.7	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.6	1.2	ug/L	1	06/07/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	88			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	64			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	61			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	60			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	59			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	72			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.48	0.48	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	104			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	66			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	72			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	73			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	71			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	87			%	1	06/06/22	WB	30 - 130 %
Extraction for 1,4-Dioxane	Completed					06/03/22	G/G	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

PFAS (21) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DS	05/31/22	
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45765

Project ID: 1665 STILLWELL AVE
Client ID: GW FD-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	ND	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	0.144	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	45.6	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	0.035	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	5.6	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	14.8	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	1.99	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium (Dissolved)	392	11	11	mg/L	100	06/03/22	CPP	SW6010D
Nickel (Dissolved)	0.006	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	SW6010D
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	06/09/22	MGH	SW6020B
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.002	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/03/22	AE/D/K	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: GW FD-1

Phoenix I.D.: CL45765

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Chlorinated Herbicides									
2,4,5-T	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4,5-TP (Silvex)	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
2,4-D	ND	4.8	4.8	ug/L	10	06/06/22	PS	SW8151A	
2,4-DB	ND	48	48	ug/L	10	06/06/22	PS	SW8151A	
Dalapon	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dicamba	ND	2.4	2.4	ug/L	10	06/06/22	PS	SW8151A	
Dichloroprop	ND	4.8	4.8	ug/L	10	06/06/22	PS	SW8151A	
Dinoseb	ND	4.8	4.8	ug/L	10	06/06/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	76			%	10	06/06/22	PS	30 - 150 %	
% DCAA (Confirmation)	75			%	10	06/06/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
4,4' -DDT	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	06/06/22	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	06/06/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/06/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/06/22	AW	SW8081B	
Methoxychlor	ND	0.095	0.095	ug/L	1	06/06/22	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	06/06/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	54			%	1	06/06/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	46			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	91			%	1	06/06/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	68			%	1	06/06/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	

Ver 1

Project ID: 1665 STILLWELL AVE
Client ID: GW FD-1

Phoenix I.D.: CL45765

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1221	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1232	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1242	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1248	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1254	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1260	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1262	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
PCB-1268	ND		0.048	0.048	ug/L	1	06/07/22	SC	SW8082A	
QA/QC Surrogates										
% DCBP	71				%	1	06/07/22	SC	30 - 150 %	
% DCBP (Confirmation)	60				%	1	06/07/22	SC	30 - 150 %	
% TCMX	74				%	1	06/07/22	SC	30 - 150 %	
% TCMX (Confirmation)	67				%	1	06/07/22	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,1-Trichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,1-Dichloropropene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,3-Trichloropropane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2,4-Trimethylbenzene	1.1	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND		1.0	1.0	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dibromoethane	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,2-Dichloropropane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3,5-Trimethylbenzene	0.83	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,3-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
1,4-Dichlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2,2-Dichloropropane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
2-Hexanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
2-Isopropyltoluene	8.8		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	1
4-Chlorotoluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
4-Methyl-2-pentanone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acetone	ND		50	5.0	ug/L	2	06/02/22	HM	SW8260C	
Acrylonitrile	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Benzene	ND		0.70	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromochloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromodichloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromoform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Bromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Carbon Disulfide	ND		10	0.50	ug/L	2	06/02/22	HM	SW8260C	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Carbon tetrachloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chlorobenzene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloroform	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Chloromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
cis-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dibromochloromethane	ND		1.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dibromomethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Dichlorodifluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Ethylbenzene	0.67	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Hexachlorobutadiene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
Isopropylbenzene	58		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
m&p-Xylene	2.5		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methyl ethyl ketone	ND		10	5.0	ug/L	2	06/02/22	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Methylene chloride	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
Naphthalene	ND		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
n-Butylbenzene	16		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
n-Propylbenzene	110		20	5.0	ug/L	20	06/01/22	HM	SW8260C	
o-Xylene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
p-Isopropyltoluene	1.7	J	2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
sec-Butylbenzene	17		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Styrene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
tert-Butylbenzene	3.4		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrachloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	1
Toluene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Total Xylenes	2.5		2.0	2.0	ug/L	2	06/02/22	HM	SW8260C	
trans-1,2-Dichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,3-Dichloropropene	ND		0.50	0.50	ug/L	2	06/02/22	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND		5.0	5.0	ug/L	2	06/02/22	HM	SW8260C	
Trichloroethene	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorofluoromethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Trichlorotrifluoroethane	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
Vinyl chloride	ND		2.0	0.50	ug/L	2	06/02/22	HM	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4 (2x)	97				%	2	06/02/22	HM	70 - 130 %	
% Bromofluorobenzene (2x)	103				%	2	06/02/22	HM	70 - 130 %	
% Dibromofluoromethane (2x)	90				%	2	06/02/22	HM	70 - 130 %	
% Toluene-d8 (2x)	106				%	2	06/02/22	HM	70 - 130 %	
% 1,2-dichlorobenzene-d4 (20x)	100				%	20	06/01/22	HM	70 - 130 %	
% Bromofluorobenzene (20x)	94				%	20	06/01/22	HM	70 - 130 %	
% Dibromofluoromethane (20x)	89				%	20	06/01/22	HM	70 - 130 %	
% Toluene-d8 (20x)	99				%	20	06/01/22	HM	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND		0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,2-Diphenylhydrazine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4,6-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dimethylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
2-Chlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
2-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	06/07/22	WB	SW8270D	
3-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
4-Chloroaniline	ND	3.3	2.2	ug/L	1	06/07/22	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitroaniline	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
4-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Acenaphthene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
Acetophenone	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Aniline	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
Anthracene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Benzidine	ND	4.2	2.8	ug/L	1	06/07/22	WB	SW8270D	
Benzoic acid	ND	24	9.4	ug/L	1	06/07/22	WB	SW8270D	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Carbazole	ND	4.7	3.6	ug/L	1	06/07/22	WB	SW8270D	
Dibenzofuran	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
Diethyl phthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D	
Fluoranthene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
Fluorene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D	
Hexachloroethane	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
Isophorone	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	
Naphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	06/07/22	WB	SW8270D
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D
Phenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.4	1.2	ug/L	1	06/07/22	WB	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	80			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	63			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	65			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	61			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	69			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	73			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	105			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	62			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	68			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	79			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	72			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	86			%	1	06/06/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:	DS	05/31/22	
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45766

Project ID: 1665 STILLWELL AVE
Client ID: GW FB-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	ND	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	0.08	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	ND	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	ND	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	0.01	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium (Dissolved)	ND	0.11	0.1	mg/L	1	06/03/22	CPP	SW6010D
Nickel (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	E200.7-4.4
Thallium (Dissolved)	ND	0.002	0.001	mg/L	1.067	06/09/22	CPP	SW7010
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.003	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/06/22	AE/D	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

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Project ID: 1665 STILLWELL AVE
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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Chlorinated Herbicides									
2,4,5-T	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
2,4,5-TP (Silvex)	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
2,4-D	ND	5.0	5.0	ug/L	10	06/07/22	PS	SW8151A	
2,4-DB	ND	50	50	ug/L	10	06/07/22	PS	SW8151A	
Dalapon	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
Dicamba	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
Dichloroprop	ND	5.0	5.0	ug/L	10	06/07/22	PS	SW8151A	
Dinoseb	ND	5.0	5.0	ug/L	10	06/07/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	77			%	10	06/07/22	PS	30 - 150 %	
% DCAA (Confirmation)	86			%	10	06/07/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Alachlor	ND	0.076	0.076	ug/L	1	06/07/22	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	06/07/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
Chlordane	ND	0.020	0.020	ug/L	1	06/07/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	06/07/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endrin	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Heptachlor epoxide	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
Methoxychlor	ND	0.10	0.10	ug/L	1	06/07/22	AW	SW8081B	
Toxaphene	ND	0.20	0.20	ug/L	1	06/07/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	39			%	1	06/07/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	64			%	1	06/07/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	69			%	1	06/07/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	124			%	1	06/07/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1221	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1232	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1242	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1248	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1254	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1260	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1262	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
PCB-1268	ND	0.051	0.051	ug/L	1	06/06/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	68			%	1	06/06/22	SC	30 - 150 %	
% DCBP (Confirmation)	72			%	1	06/06/22	SC	30 - 150 %	
% TCMX	85			%	1	06/06/22	SC	30 - 150 %	
% TCMX (Confirmation)	82			%	1	06/06/22	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Hexanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acetone	ND	25	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acrylonitrile	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromoform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon Disulfide	ND	5.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Chlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methylene chloride	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	06/01/22	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Total Xylenes	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	98			%	1	06/01/22	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	06/01/22	MH	70 - 130 %	
% Dibromofluoromethane	92			%	1	06/01/22	MH	70 - 130 %	
% Toluene-d8	96			%	1	06/01/22	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D	

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2,4,6-Trichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dichlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dimethylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dinitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
2-Chlorophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
2-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D
2-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	06/07/22	WB	SW8270D
3-Nitroaniline	ND	4.7	1.9	ug/L	1	06/07/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
4-Chloroaniline	ND	3.3	2.2	ug/L	1	06/07/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
4-Nitroaniline	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
4-Nitrophenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Acenaphthene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
Acetophenone	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Aniline	ND	3.3	3.3	ug/L	1	06/07/22	WB	SW8270D
Anthracene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Benzidine	ND	4.2	2.8	ug/L	1	06/07/22	WB	SW8270D
Benzoic acid	ND	24	9.4	ug/L	1	06/07/22	WB	SW8270D
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	1.2	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Carbazole	ND	4.7	3.6	ug/L	1	06/07/22	WB	SW8270D
Dibenzofuran	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
Diethyl phthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Dimethylphthalate	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	06/07/22	WB	SW8270D
Fluoranthene	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
Fluorene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Hexachloroethane	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Isophorone	ND	4.7	1.3	ug/L	1	06/07/22	WB	SW8270D
Naphthalene	ND	4.7	1.4	ug/L	1	06/07/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	06/07/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	06/07/22	WB	SW8270D
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	06/07/22	WB	SW8270D
Phenol	ND	0.94	0.94	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	4.7	1.6	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	9.4	1.2	ug/L	1	06/07/22	WB	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates								
% 2,4,6-Tribromophenol	78			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	55			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	67			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	52			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	54			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	76			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.38	0.38	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.47	0.47	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	97			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	61			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	70			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	68			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	67			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	90			%	1	06/06/22	WB	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 15, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	LIQUID	Collected by:	DS	05/31/22	
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCL45757
Phoenix ID: CL45767

Project ID: 1665 STILLWELL AVE
Client ID: EQUIPMENT BLANK 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Aluminum (Dissolved)	ND	0.011	0.0026	mg/L	1	06/02/22	EK	SW6010D
Arsenic (Dissolved)	ND	0.004	0.001	mg/L	1	06/02/22	EK	SW6010D
Barium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Calcium (Dissolved)	0.08	0.01	0.003	mg/L	1	06/02/22	EK	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	06/02/22	EK	SW6010D
Cobalt (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	06/02/22	EK	SW6010D
Iron (Dissolved)	ND	0.011	0.01	mg/L	1	06/02/22	EK	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	06/03/22	IE	SW7470A
Potassium (Dissolved)	ND	0.1	0.1	mg/L	1	06/02/22	EK	SW6010D
Magnesium (Dissolved)	0.01	0.01	0.01	mg/L	1	06/02/22	EK	SW6010D
Manganese (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Sodium (Dissolved)	ND	0.11	0.1	mg/L	1	06/03/22	CPP	SW6010D
Nickel (Dissolved)	ND	0.001	0.001	mg/L	1	06/02/22	EK	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	06/02/22	EK	SW6010D
Selenium (Dissolved)	ND	0.010	0.01	mg/L	1	06/02/22	EK	E200.7-4.4
Thallium (Dissolved)	ND	0.002	0.001	mg/L	1.067	06/09/22	CPP	SW7010
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	06/02/22	EK	SW6010D
Zinc (Dissolved)	0.003	0.002	0.002	mg/L	1	06/02/22	EK	SW6010D
Filtration	Completed					06/01/22	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					06/03/22	KL/AB	SW7470A
Extraction for Herbicide	Completed					06/06/22	AE/D	SW8151A
PCB Extraction (LDL)	Completed					06/03/22	TH	SW3510C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Extraction for Pest (LDL)	Completed					06/03/22	TH	SW3510C	
Semi-Volatile Extraction	Completed					06/02/22	MA/MQ/W	SW3520C	
Dissolved Metals Preparation	Completed					06/01/22	AG	SW3005A	
Chlorinated Herbicides									
2,4,5-T	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
2,4,5-TP (Silvex)	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
2,4-D	ND	5.0	5.0	ug/L	10	06/07/22	PS	SW8151A	
2,4-DB	ND	50	50	ug/L	10	06/07/22	PS	SW8151A	
Dalapon	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
Dicamba	ND	2.5	2.5	ug/L	10	06/07/22	PS	SW8151A	
Dichloroprop	ND	5.0	5.0	ug/L	10	06/07/22	PS	SW8151A	
Dinoseb	ND	5.0	5.0	ug/L	10	06/07/22	PS	SW8151A	
QA/QC Surrogates									
% DCAA	82			%	10	06/07/22	PS	30 - 150 %	
% DCAA (Confirmation)	89			%	10	06/07/22	PS	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Alachlor	ND	0.074	0.074	ug/L	1	06/07/22	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	06/07/22	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
Chlordane	ND	0.049	0.049	ug/L	1	06/07/22	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	06/07/22	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	06/07/22	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	06/07/22	AW	SW8081B	
Methoxychlor	ND	0.098	0.098	ug/L	1	06/07/22	AW	SW8081B	
Toxaphene	ND	0.20	0.20	ug/L	1	06/07/22	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	38			%	1	06/07/22	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	57			%	1	06/07/22	AW	30 - 150 %	
%TCMX (Surrogate Rec)	72			%	1	06/07/22	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	123			%	1	06/07/22	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1221	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PCB-1232	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1242	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1248	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1254	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1260	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1262	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
PCB-1268	ND	0.049	0.049	ug/L	1	06/06/22	SC	SW8082A	
QA/QC Surrogates									
% DCBP	53			%	1	06/06/22	SC	30 - 150 %	
% DCBP (Confirmation)	58			%	1	06/06/22	SC	30 - 150 %	
% TCMX	80			%	1	06/06/22	SC	30 - 150 %	
% TCMX (Confirmation)	91			%	1	06/06/22	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
2-Hexanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acetone	ND	25	2.5	ug/L	1	06/01/22	MH	SW8260C	
Acrylonitrile	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromoform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Bromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon Disulfide	ND	5.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Chlorobenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloroform	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Chloromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Methylene chloride	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	06/01/22	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Total Xylenes	ND	1.0	1.0	ug/L	1	06/01/22	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	06/01/22	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	06/01/22	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	06/01/22	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	06/01/22	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	06/01/22	MH	70 - 130 %	
% Dibromofluoromethane	96			%	1	06/01/22	MH	70 - 130 %	
% Toluene-d8	96			%	1	06/01/22	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.6	3.6	ug/L	1	06/07/22	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	5.2	1.6	ug/L	1	06/07/22	WB	SW8270D	
1,2-Dichlorobenzene	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
1,2-Diphenylhydrazine	ND	5.2	1.7	ug/L	1	06/07/22	WB	SW8270D	
1,3-Dichlorobenzene	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
1,4-Dichlorobenzene	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	
2,2'-Oxybis(1-Chloropropane)	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D	1
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D	

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2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	06/07/22	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	06/07/22	WB	SW8270D
2-Chloronaphthalene	ND	5.2	1.5	ug/L	1	06/07/22	WB	SW8270D
2-Chlorophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
2-Methylnaphthalene	ND	5.2	1.5	ug/L	1	06/07/22	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
2-Nitroaniline	ND	5.0	2.1	ug/L	1	06/07/22	WB	SW8270D
2-Nitrophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	2.5	ug/L	1	06/07/22	WB	SW8270D
3-Nitroaniline	ND	5.0	2.1	ug/L	1	06/07/22	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.2	1.5	ug/L	1	06/07/22	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
4-Chloroaniline	ND	3.6	2.4	ug/L	1	06/07/22	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	5.2	1.7	ug/L	1	06/07/22	WB	SW8270D
4-Nitroaniline	ND	5.0	1.7	ug/L	1	06/07/22	WB	SW8270D
4-Nitrophenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
Acenaphthene	ND	5.2	1.6	ug/L	1	06/07/22	WB	SW8270D
Acetophenone	ND	5.2	1.6	ug/L	1	06/07/22	WB	SW8270D
Aniline	ND	3.6	3.6	ug/L	1	06/07/22	WB	SW8270D
Anthracene	ND	5.2	1.7	ug/L	1	06/07/22	WB	SW8270D
Benzidine	ND	4.7	3.1	ug/L	1	06/07/22	WB	SW8270D
Benzoic acid	ND	26	10	ug/L	1	06/07/22	WB	SW8270D
Benzyl butyl phthalate	ND	5.2	1.3	ug/L	1	06/07/22	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	06/07/22	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
Carbazole	ND	5.2	3.9	ug/L	1	06/07/22	WB	SW8270D
Dibenzofuran	ND	5.0	1.5	ug/L	1	06/07/22	WB	SW8270D
Diethyl phthalate	ND	5.2	1.6	ug/L	1	06/07/22	WB	SW8270D
Dimethylphthalate	ND	5.2	1.6	ug/L	1	06/07/22	WB	SW8270D
Di-n-butylphthalate	ND	5.2	1.4	ug/L	1	06/07/22	WB	SW8270D
Di-n-octylphthalate	ND	5.2	1.3	ug/L	1	06/07/22	WB	SW8270D
Fluoranthene	ND	5.2	1.7	ug/L	1	06/07/22	WB	SW8270D
Fluorene	ND	5.2	1.7	ug/L	1	06/07/22	WB	SW8270D
Hexachloroethane	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
Isophorone	ND	5.2	1.5	ug/L	1	06/07/22	WB	SW8270D
Naphthalene	ND	5.0	1.5	ug/L	1	06/07/22	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.2	1.7	ug/L	1	06/07/22	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.2	2.0	ug/L	1	06/07/22	WB	SW8270D
Pentachloronitrobenzene	ND	2.6	2.6	ug/L	1	06/07/22	WB	SW8270D
Phenol	ND	1.0	1.0	ug/L	1	06/07/22	WB	SW8270D
Pyrene	ND	5.2	1.8	ug/L	1	06/07/22	WB	SW8270D
Pyridine	ND	10	1.3	ug/L	1	06/07/22	WB	SW8270D

Project ID: 1665 STILLWELL AVE
Client ID: EQUIPMENT BLANK 2

Phoenix I.D.: CL45767

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates								
% 2,4,6-Tribromophenol	76			%	1	06/07/22	WB	15 - 110 %
% 2-Fluorobiphenyl	64			%	1	06/07/22	WB	30 - 130 %
% 2-Fluorophenol	65			%	1	06/07/22	WB	15 - 110 %
% Nitrobenzene-d5	55			%	1	06/07/22	WB	30 - 130 %
% Phenol-d5	62			%	1	06/07/22	WB	15 - 110 %
% Terphenyl-d14	79			%	1	06/07/22	WB	30 - 130 %
Semivolatiles								
Acenaphthylene	ND	0.52	0.52	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.52	0.52	ug/L	1	06/06/22	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Chrysene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.52	0.52	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	06/06/22	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.52	0.52	ug/L	1	06/06/22	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	06/06/22	WB	SW8270D (SIM)
Nitrobenzene	ND	0.40	0.40	ug/L	1	06/06/22	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	06/06/22	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.52	0.52	ug/L	1	06/06/22	WB	SW8270D (SIM)
Phenanthrene	ND	0.52	0.52	ug/L	1	06/06/22	WB	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	100			%	1	06/06/22	WB	15 - 110 %
% 2-Fluorobiphenyl	66			%	1	06/06/22	WB	30 - 130 %
% 2-Fluorophenol	63			%	1	06/06/22	WB	15 - 110 %
% Nitrobenzene-d5	72			%	1	06/06/22	WB	30 - 130 %
% Phenol-d5	71			%	1	06/06/22	WB	15 - 110 %
% Terphenyl-d14	95			%	1	06/06/22	WB	30 - 130 %

Project ID: 1665 STILLWELL AVE
Client ID: EQUIPMENT BLANK 2

Phoenix I.D.: CL45767

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 15, 2022
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Sample Criteria Exceedances Report

Criteria: NY: GW

State: NY

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45758	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45758	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CL45758	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CL45759	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.4	0.26	0.26	ug/L
CL45759	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.8	4.4	4.4	ug/L
CL45759	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.26	0.26	ug/L
CL45759	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.44	0.44	ug/L
CL45759	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.0006	0.0006	ug/L
CL45759	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45759	$8260GWR	sec-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	17	2.0	5	5	ug/L
CL45759	$8260GWR	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	83	20	5	5	ug/L
CL45759	$8260GWR	n-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	6.4	2.0	5	5	ug/L
CL45759	$8260GWR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	50	2.0	5	5	ug/L
CL45759	$8260GWR	2-Isopropyltoluene	NY / TOGS - Water Quality / GA Criteria	8.6	2.0	5	5	ug/L
CL45759	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
CL45759	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45759	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45759	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45759	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45759	$DPPEST_GA	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.052	0.01	0.01	ug/L
CL45759	$DPPEST_GA	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.021	0.01	0.01	ug/L
CL45759	$DPPEST_GA	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.052	0.01	0.01	ug/L
CL45759	$DPPEST_GA	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.21	0.1	0.1	ug/L
CL45759	$DPPEST_GA	Aldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.021	0.01	0.01	ug/L
CL45759	$DPPEST_GA	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.021	0.01	0.01	ug/L
CL45759	$DPPEST_GA	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.052	0.01	0.01	ug/L
CL45759	$DPPEST_GA	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.021	0.01	0.01	ug/L
CL45759	$DPPEST_GA	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.30	0.01	0.01	ug/L
CL45759	$DPPEST_GA	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND	0.052	0.03	0.03	ug/L
CL45759	$DPPEST_GA	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND	0.052	0.04	0.04	ug/L
CL45759	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	2.1	0.06	0.06	ug/L
CL45759	$DPPEST_GA	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND	0.21	0.05	0.05	ug/L

Wednesday, June 15, 2022

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45759	$DPPEST_GA	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.021	0.01	0.01	ug/L
CL45759	$DPPEST_GA	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	ND	0.30	0.2	0.2	ug/L
CL45759	$DPPEST_GA	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.021	0.004	0.004	ug/L
CL45759	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.16	0.011	0.3	0.3	mg/L
CL45759	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	40.8	0.01	35	35	mg/L
CL45759	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	4.75	0.011	0.3	0.3	mg/L
CL45759	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	120	1.1	20	20	mg/L
CL45760	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.7	4.4	4.4	ug/L
CL45760	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.4	0.26	0.26	ug/L
CL45760	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.44	0.44	ug/L
CL45760	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.26	0.26	ug/L
CL45760	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45760	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CL45760	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CL45760	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45760	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45760	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CL45760	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.970	0.001	0.3	0.3	mg/L
CL45760	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	292	1.1	20	20	mg/L
CL45761	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.5	0.26	0.26	ug/L
CL45761	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.9	4.4	4.4	ug/L
CL45761	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.44	0.44	ug/L
CL45761	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.26	0.26	ug/L
CL45761	$8260GWR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	100	20	5	5	ug/L
CL45761	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45761	$8260GWR	sec-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	11	2.0	5	5	ug/L
CL45761	$8260GWR	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	140	20	5	5	ug/L
CL45761	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45761	$8260GWR	2-Isopropyltoluene	NY / TOGS - Water Quality / GA Criteria	7.3	2.0	5	5	ug/L
CL45761	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.0006	0.0006	ug/L
CL45761	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

Wednesday, June 15, 2022

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45761	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45761	$8260GWR	n-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	12	2.0	5	5	ug/L
CL45761	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45761	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45761	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CL45761	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	3.13	0.011	0.3	0.3	mg/L
CL45761	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	6.17	0.011	0.3	0.3	mg/L
CL45761	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	140	1.1	20	20	mg/L
CL45762	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.4	0.26	0.26	ug/L
CL45762	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.7	4.4	4.4	ug/L
CL45762	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.26	0.26	ug/L
CL45762	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.44	0.44	ug/L
CL45762	$8260GWR	sec-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	15	2.0	5	5	ug/L
CL45762	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45762	$8260GWR	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	100	20	5	5	ug/L
CL45762	$8260GWR	n-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	14	2.0	5	5	ug/L
CL45762	$8260GWR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	40	2.0	5	5	ug/L
CL45762	$8260GWR	2-Isopropyltoluene	NY / TOGS - Water Quality / GA Criteria	8.0	2.0	5	5	ug/L
CL45762	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.0006	0.0006	ug/L
CL45762	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
CL45762	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45762	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45762	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45762	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L

Wednesday, June 15, 2022

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45762	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45762	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CL45762	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.87	0.001	0.3	0.3	mg/L
CL45762	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	394	11	20	20	mg/L
CL45763	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.4	0.26	0.26	ug/L
CL45763	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.7	4.4	4.4	ug/L
CL45763	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.44	0.44	ug/L
CL45763	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.26	0.26	ug/L
CL45763	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CL45763	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45763	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CL45763	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45763	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45763	$DPPEST_GA	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.19	0.1	0.1	ug/L
CL45763	$DPPEST_GA	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.047	0.01	0.01	ug/L
CL45763	$DPPEST_GA	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.047	0.01	0.01	ug/L
CL45763	$DPPEST_GA	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.047	0.01	0.01	ug/L
CL45763	$DPPEST_GA	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.019	0.01	0.01	ug/L
CL45763	$DPPEST_GA	Aldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.019	0.01	0.01	ug/L
CL45763	$DPPEST_GA	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.019	0.01	0.01	ug/L
CL45763	$DPPEST_GA	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.019	0.01	0.01	ug/L
CL45763	$DPPEST_GA	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.019	0.01	0.01	ug/L
CL45763	$DPPEST_GA	Chlordane	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.05	0.05	ug/L
CL45763	$DPPEST_GA	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.019	0.01	0.01	ug/L
CL45763	$DPPEST_GA	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.019	0.004	0.004	ug/L
CL45763	$DPPEST_GA	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND	0.047	0.04	0.04	ug/L
CL45763	$DPPEST_GA	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND	0.047	0.03	0.03	ug/L
CL45763	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	1.9	0.06	0.06	ug/L
CL45763	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.608	0.011	0.3	0.3	mg/L
CL45763	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	2.68	0.011	0.3	0.3	mg/L
CL45763	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	158	1.1	20	20	mg/L

Wednesday, June 15, 2022

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45764	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.4	0.26	0.26	ug/L
CL45764	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.7	4.4	4.4	ug/L
CL45764	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.26	0.26	ug/L
CL45764	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.44	0.44	ug/L
CL45764	$8260GWR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	2.1	0.70	0.7	0.7	ug/L
CL45764	$8260GWR	Benzene	NY / TOGS - Water Quality / GA Criteria	2.1	0.70	1	1	ug/L
CL45764	$8260GWR	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	26	5.0	5	5	ug/L
CL45764	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45764	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CL45764	$8260GWR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	27	1.0	5	5	ug/L
CL45764	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CL45764	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45764	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45764	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CL45764	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.45	0.011	0.3	0.3	mg/L
CL45764	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	3.03	0.011	0.3	0.3	mg/L
CL45764	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	57.6	1.1	20	20	mg/L
CL45765	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	4.8	4.4	4.4	ug/L
CL45765	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.4	0.26	0.26	ug/L
CL45765	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.44	0.44	ug/L
CL45765	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.4	0.26	0.26	ug/L
CL45765	$8260GWR	sec-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	17	2.0	5	5	ug/L
CL45765	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
CL45765	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45765	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45765	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.0006	0.0006	ug/L
CL45765	$8260GWR	2-Isopropyltoluene	NY / TOGS - Water Quality / GA Criteria	8.8	2.0	5	5	ug/L
CL45765	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
CL45765	$8260GWR	Isopropylbenzene	NY / TOGS - Water Quality / GA Criteria	58	2.0	5	5	ug/L
CL45765	$8260GWR	n-Butylbenzene	NY / TOGS - Water Quality / GA Criteria	16	2.0	5	5	ug/L
CL45765	$8260GWR	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	110	20	5	5	ug/L
CL45765	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L

Wednesday, June 15, 2022

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45765	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45765	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45765	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CL45765	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.99	0.001	0.3	0.3	mg/L
CL45765	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	392	11	20	20	mg/L
CL45766	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	5.0	4.4	4.4	ug/L
CL45766	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.5	0.26	0.26	ug/L
CL45766	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.26	0.26	ug/L
CL45766	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.44	0.44	ug/L
CL45766	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CL45766	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CL45766	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45766	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45766	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45766	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	ug/L
CL45766	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
CL45767	$8150_WMR	2,4,5-TP (Silvex)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	2.5	0.26	0.26	ug/L
CL45767	$8150_WMR	2,4-D	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	5.0	4.4	4.4	ug/L
CL45767	$8150_WMR	2,4,5-TP (Silvex)	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.26	0.26	ug/L
CL45767	$8150_WMR	Dicamba	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.44	0.44	ug/L
CL45767	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CL45767	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CL45767	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L

Wednesday, June 15, 2022

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCL45757 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45767	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45767	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CL45767	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	ug/L
CL45767	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

June 15, 2022

SDG I.D.: GCL45757

The samples in this delivery group were received at 3.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

Temp 3.0°C Pg 2 of 2

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: R3K
Address:

Project: 1665 STILLWELL AVE.
Report to: R3K
Invoice to: R3K
QUOTE # :

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature DANNY SINGH. Date: 5-31-22

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

VOCs PFAS 537 NY-21

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [ ] oz	GL Soil container [ ] oz	40 ml VOA Vial [X] As is [2] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [2] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/Na2S2O3	Bacteria Bottle as is
45757	4W-2 FB	GW	5/31/22	9:00	✓					1						
45758	TB-2	L	5/31/22		✓				1							

Relinquished by:	Accepted by:	Date:	Time:
		6/1/22	1223
		6/1	1547

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

NY
☑ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:

Data Format:
☑ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☑ NY Enhanced (ASP B) *

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Temp 3.0 C Pg 1 of 2

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☑ Phone: 718-438-2200
☐ Fax:
☑ Email: office@lsenvironmental.com

Customer: RSK ENVIRONMENTAL
Address: 132-02 89th AVE, #222
RICHMOND HILL, NY 11418

Project: 1665 STILLWELL AVENUE
Report to: RSK
Invoice to: RSK
QUOTE # :
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: DANNY SINGH Date: 5-31-22

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	SVOCs	PCB, Pesticides	Metals, Dissolv. Metals	PFAS, 537 NY-21	1,4 Dioxane	Herbicides	GL Amber 8 oz. w/ NaHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [X] As is [ ] HCl	GL Amber 1000ml [●] As is [ ] H2SO4	PL As is [●] 250ml [ ] 500ml [ ] 1000ml (2) 125ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
45759	SB-2/GW-1 (17.5')	GW	5/31/22	2:00pm	✓	✓	✓	✓	✓	✓	✓	1				1	5	1			1			
45760	SB-7/GW-2 (17.5')			4:00								1				1	5	1			1			
45761	SB-3/GW-3 (16.68')			1:55								1				1	5	1			1			
45762	SB-4/GW-4 (17.35')			4:40								1				1	5	1			1			
45763	SB-5/GW-5 (17.19')			3:20								1				1	5	1			1			
45764	SB-6/GW-6 (16.70')	↓		1:00	↓	↓	↓	↓	↓	↓	↓	1				1	5	1			1			
45760	SB-7/GW-2 (MS-1)	GW		4:15	✓	✓	✓	✓			✓					1	5	1			1			
45760	SB-7/GW-2 (MSD-1)	GW		4:15												1	5	1			1			
45765	GW FD-1	GW														1	5	1			1			
45766	GW FB-1	L														1	5	1			1			
45767	EQUIPMENT BLANK 2	L	↓		↓	↓	↓	↓			↓					1	5	1			1			

Relinquished by:	Accepted by:	Date:	Time:
		6/1/22	1223
		6/1	1547

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
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NY
☑ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? NY

Comments, Special Requirements or Regulations:
Lab to Filter.
Lab to Spike.

Data Format:
☑ Phoenix Std Report ☐ EQuIS
☑ Excel ☐ NJ Hazsite EDD
☑ PDF ☐ NY EZ EDD
☐ GIS/Key ☐ Other

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☑ NY Enhanced (ASP B) *

PEL-111 Rev 10/2021

Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 06/13/2022
Client Project ID: GW-2 - SB-6/GW-6
York Project (SDG) No.: 22F0242

Revision No. 1.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 06/13/2022
Client Project ID: GW-2 - SB-6/GW-6
York Project (SDG) No.: 22F0242

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 03, 2022 and listed below. The project was identified as your project: **GW-2 - SB-6/GW-6**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22F0242-01	GW-2 FB	Water	05/31/2022	06/03/2022
22F0242-02	SB-2 GW-1 (17.5 ft)	Water	05/31/2022	06/03/2022
22F0242-03	SB-7 GW-2 (17.15 ft)	Water	05/31/2022	06/03/2022
22F0242-04	SB-3 GW-3 (16.68 ft)	Water	05/31/2022	06/03/2022
22F0242-05	SB-4 GW-4 (17.35 ft)	Water	05/31/2022	06/03/2022
22F0242-06	SB-5 GW-5 (17.19 ft)	Water	05/31/2022	06/03/2022
22F0242-07	SB-6 GW-6 (16.20 ft)	Water	05/31/2022	06/03/2022

General Notes for York Project (SDG) No.: 22F0242

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 06/13/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: GW-2 FB

York Sample ID: 22F0242-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 9:00 am	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**1.92**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.73	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:19	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*87.3 %*	*25-150*

Sample Information

Client Sample ID: GW-2 FB **York Sample ID:** 22F0242-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 9:00 am	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	*73.4 %*			*25-150*					
	Surrogate: M4PFHpA	*65.9 %*			*25-150*					
	Surrogate: M3PFHxS	*71.9 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*61.3 %*			*25-150*					
	Surrogate: M6PFDA	*61.0 %*			*25-150*					
	Surrogate: M7PFUdA	*58.0 %*			*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*47.9 %*			*25-150*					
	Surrogate: M2PFTeDA	*30.3 %*			*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*79.8 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*54.4 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.8 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*31.2 %*			*10-150*					
	Surrogate: d3-N-MeFOSAA	*48.3 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*50.7 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*131 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*68.0 %*			*25-200*					
	Surrogate: M9PFNA	*68.5 %*			*25-150*					

Sample Information

Client Sample ID: SB-2 GW-1 (17.5 ft) **York Sample ID:** 22F0242-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 2:00 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**7.56**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**13.6**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**13.0**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL

Sample Information

Client Sample ID: SB-2 GW-1 (17.5 ft) **York Sample ID:** 22F0242-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 2:00 pm	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**14.1**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**48.2**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**10.4**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**15.0**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**3.25**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**2.95**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:32	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*96.7 %*	*25-150*
Surrogate: M5PFHxA	*36.4 %*	*25-150*
Surrogate: M4PFHpA	*46.5 %*	*25-150*
Surrogate: M3PFHxS	*104 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*65.1 %*	*25-150*
Surrogate: M6PFDA	*85.7 %*	*25-150*

Sample Information

Client Sample ID: SB-2 GW-1 (17.5 ft) **York Sample ID:** 22F0242-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 2:00 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*103 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*91.7 %*		*25-150*						
	Surrogate: M2PFTeDA	*89.3 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*32.7 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*113 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*43.7 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*14.5 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*90.4 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*113 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*264 %*	PFSu-H	*25-200*						
	Surrogate: M2-8:2 FTS	*247 %*	PFSu-H	*25-200*						
	Surrogate: M9PFNA	*90.9 %*		*25-150*						

Sample Information

Client Sample ID: SB-7 GW-2 (17.15 ft) **York Sample ID:** 22F0242-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 4:00 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**4.52**		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**4.65**		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**14.6**		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**13.1**		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL

Sample Information

Client Sample ID: **SB-7 GW-2 (17.15 ft)** **York Sample ID:** **22F0242-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 4:00 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.46	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**8.62**		ng/L	1.79	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 22:58	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*92.1 %*	*25-150*
Surrogate: M5PFHxA	*68.3 %*	*25-150*
Surrogate: M4PFHpA	*65.6 %*	*25-150*
Surrogate: M3PFHxS	*87.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*68.9 %*	*25-150*
Surrogate: M6PFDA	*63.6 %*	*25-150*
Surrogate: M7PFUdA	*75.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*60.1 %*	*25-150*
Surrogate: M2PFTeDA	*60.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*75.8 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*95.2 %*	*25-150*

Sample Information

Client Sample ID: **SB-7 GW-2 (17.15 ft)** **York Sample ID:** **22F0242-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 4:00 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.1 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*4.25 %*	PFSu-L	*10-150*						
	Surrogate: d3-N-MeFOSAA	*68.4 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*70.1 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*109 %*		*25-200*						
	Surrogate: M2-8:2 FTS	*94.1 %*		*25-200*						
	Surrogate: M9PFNA	*77.4 %*		*25-150*						

Sample Information

Client Sample ID: **SB-3 GW-3 (16.68 ft)** **York Sample ID:** **22F0242-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 1:55 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**6.73**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**15.9**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**12.9**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**7.25**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**45.8**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**11.8**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL

Sample Information

Client Sample ID: SB-3 GW-3 (16.68 ft) **York Sample ID:** 22F0242-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 1:55 pm	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**16.3**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**13.8**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:12	WL

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*84.8 %*		*25-150*
Surrogate: M5PFHxA	*54.3 %*		*25-150*
Surrogate: M4PFHpA	*54.2 %*		*25-150*
Surrogate: M3PFHxS	*91.8 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*65.8 %*		*25-150*
Surrogate: M6PFDA	*71.3 %*		*25-150*
Surrogate: M7PFUdA	*77.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*71.7 %*		*25-150*
Surrogate: M2PFTeDA	*77.6 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*62.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*95.2 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*62.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.80 %*	PFSu-L	*10-150*
Surrogate: d3-N-MeFOSAA	*71.5 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*85.1 %*		*25-150*
Surrogate: M2-6:2 FTS	*147 %*		*25-200*

Sample Information

Client Sample ID: SB-3 GW-3 (16.68 ft) **York Sample ID:** 22F0242-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 1:55 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	*121 %*			*25-200*					
	Surrogate: M9PFNA	*76.3 %*			*25-150*					

Sample Information

Client Sample ID: SB-4 GW-4 (17.35 ft) **York Sample ID:** 22F0242-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 4:40 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**7.07**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**7.67**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**4.98**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**5.69**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**43.6**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**14.1**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**7.26**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL

Sample Information

Client Sample ID: SB-4 GW-4 (17.35 ft) **York Sample ID:** 22F0242-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 4:40 pm	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.63	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**20.2**		ng/L	1.85	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:24	WL

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*91.0 %*		*25-150*
Surrogate: M5PFHxA	*70.2 %*		*25-150*
Surrogate: M4PFHpA	*64.3 %*		*25-150*
Surrogate: M3PFHxS	*89.7 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*65.4 %*		*25-150*
Surrogate: M6PFDA	*68.1 %*		*25-150*
Surrogate: M7PFUdA	*70.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*65.8 %*		*25-150*
Surrogate: M2PFTeDA	*68.7 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*73.5 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*83.4 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*72.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*6.64 %*	PFSu-L	*10-150*
Surrogate: d3-N-MeFOSAA	*62.3 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*65.1 %*		*25-150*
Surrogate: M2-6:2 FTS	*109 %*		*25-200*
Surrogate: M2-8:2 FTS	*89.4 %*		*25-200*
Surrogate: M9PFNA	*75.8 %*		*25-150*

Sample Information

Client Sample ID: **SB-5 GW-5 (17.19 ft)** **York Sample ID:** **22F0242-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 3:20 pm	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**2.65**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**10.7**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**13.9**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**5.07**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**44.2**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**20.0**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**13.6**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.73	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**12.4**		ng/L	1.89	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:37	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*117 %*	*25-150*

Sample Information

Client Sample ID: **SB-5 GW-5 (17.19 ft)** **York Sample ID:** **22F0242-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 3:20 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	*42.0 %*		*25-150*						
	Surrogate: M4PFHpA	*47.8 %*		*25-150*						
	Surrogate: M3PFHxS	*129 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*73.0 %*		*25-150*						
	Surrogate: M6PFDA	*108 %*		*25-150*						
	Surrogate: M7PFUdA	*125 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*114 %*		*25-150*						
	Surrogate: M2PFTeDA	*120 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*48.3 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*133 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*55.5 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.3 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*114 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*147 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*316 %*	PFSu-H	*25-200*						
	Surrogate: M2-8:2 FTS	*318 %*	PFSu-H	*25-200*						
	Surrogate: M9PFNA	*92.7 %*		*25-150*						

Sample Information

Client Sample ID: **SB-6 GW-6 (16.20 ft)** **York Sample ID:** **22F0242-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 1:00 pm	06/03/2022

PFAS by EPA 537 m **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**9.27**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**58.2**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**30.3**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL

Sample Information

Client Sample ID: SB-6 GW-6 (16.20 ft) **York Sample ID:** 22F0242-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 1:00 pm	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**16.1**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**222**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**130**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
375-95-1	*** Perfluorononanoic acid (PFNA)**	**5.95**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**54.7**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**6.04**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.81	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**23.6**		ng/L	1.92	1	EPA 537m Certifications:	06/09/2022 10:25	06/09/2022 23:50	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*94.0 %*	*25-150*
Surrogate: M5PFHxA	*65.6 %*	*25-150*
Surrogate: M4PFHpA	*60.3 %*	*25-150*
Surrogate: M3PFHxS	*93.2 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*64.1 %*	*25-150*
Surrogate: M6PFDA	*75.0 %*	*25-150*

Sample Information

Client Sample ID: **SB-6 GW-6 (16.20 ft)** **York Sample ID:** **22F0242-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22F0242	GW-2 - SB-6/GW-6	Water	May 31, 2022 1:00 pm	06/03/2022

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*82.7 %*			*25-150*					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*69.6 %*			*25-150*					
	Surrogate: M2PFTeDA	*78.4 %*			*10-150*					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*76.5 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*108 %*			*25-150*					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*73.2 %*			*25-150*					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*7.30 %*	PFSu-L		*10-150*					
	Surrogate: d3-N-MeFOSAA	*70.7 %*			*25-150*					
	Surrogate: d5-N-EtFOSAA	*80.6 %*			*25-150*					
	Surrogate: M2-6:2 FTS	*154 %*			*25-200*					
	Surrogate: M2-8:2 FTS	*133 %*			*25-200*					
	Surrogate: M9PFNA	*83.0 %*			*25-150*					

Analytical Batch Summary

Batch ID: BF20560 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** WEL

YORK Sample ID	Client Sample ID	Preparation Date
22F0242-01	GW-2 FB	06/09/22
22F0242-02	SB-2 GW-1 (17.5 ft)	06/09/22
22F0242-03	SB-7 GW-2 (17.15 ft)	06/09/22
22F0242-04	SB-3 GW-3 (16.68 ft)	06/09/22
22F0242-05	SB-4 GW-4 (17.35 ft)	06/09/22
22F0242-06	SB-5 GW-5 (17.19 ft)	06/09/22
22F0242-07	SB-6 GW-6 (16.20 ft)	06/09/22
BF20560-BLK1	Blank	06/09/22
BF20560-BS1	LCS	06/09/22
BF20560-BSD1	LCS Dup	06/09/22

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20560 - SPE Ext-PFAS-EPA 537.1M											
Blank (BF20560-BLK1)								Prepared & Analyzed: 06/09/2022			
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*68.9*		"	*74.3*		*92.7*	*25-150*				
Surrogate: M5PFHxA	*62.5*		"	*80.0*		*78.1*	*25-150*				
Surrogate: M4PFHpA	*55.8*		"	*80.0*		*69.8*	*25-150*				
Surrogate: M3PFHxS	*65.5*		"	*75.7*		*86.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.7*		"	*80.0*		*70.9*	*25-150*				
Surrogate: M6PFDA	*59.5*		"	*80.0*		*74.4*	*25-150*				
Surrogate: M7PFUdA	*65.5*		"	*80.0*		*81.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*59.3*		"	*80.0*		*74.2*	*25-150*				
Surrogate: M2PFTeDA	*70.3*		"	*80.0*		*87.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*66.4*		"	*80.0*		*83.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*64.5*		"	*76.6*		*84.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*63.1*		"	*80.0*		*78.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*41.6*		"	*80.0*		*52.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*61.5*		"	*80.0*		*76.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*63.0*		"	*80.0*		*78.8*	*25-150*				
Surrogate: M2-6:2 FTS	*54.6*		"	*75.9*		*72.0*	*25-200*				
Surrogate: M2-8:2 FTS	*66.2*		"	*76.6*		*86.4*	*25-200*				
Surrogate: M9PFNA	*64.4*		"	*80.0*		*80.5*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20560 - SPE Ext-PFAS-EPA 537.1M											
LCS (BF20560-BS1)							Prepared & Analyzed: 06/09/2022				
Perfluorobutanesulfonic acid (PFBS)	88.8	2.00	ng/L	70.8		125	50-130				
Perfluorohexanoic acid (PFHxA)	95.7	2.00	"	80.0		120	50-130				
Perfluoroheptanoic acid (PFHpA)	103	2.00	"	80.0		129	50-130				
Perfluorohexanesulfonic acid (PFHxS)	85.1	2.00	"	72.8		117	50-130				
Perfluorooctanoic acid (PFOA)	102	2.00	"	80.0		127	50-130				
Perfluorooctanesulfonic acid (PFOS)	81.6	2.00	"	74.0		110	50-130				
Perfluorononanoic acid (PFNA)	93.6	2.00	"	80.0		117	50-130				
Perfluorodecanoic acid (PFDA)	99.1	2.00	"	80.0		124	50-130				
Perfluoroundecanoic acid (PFUnA)	86.8	2.00	"	80.0		108	50-130				
Perfluorododecanoic acid (PFDoA)	92.7	2.00	"	80.0		116	50-130				
Perfluorotridecanoic acid (PFTrDA)	84.4	2.00	"	80.0		105	50-130				
Perfluorotetradecanoic acid (PFTA)	79.8	2.00	"	80.0		99.8	50-130				
N-MeFOSAA	91.1	2.00	"	80.0		114	50-130				
N-EtFOSAA	88.4	2.00	"	80.0		110	50-130				
Perfluoropentanoic acid (PFPeA)	91.6	2.00	"	80.0		114	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	92.3	2.00	"	80.0		115	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	90.3	2.00	"	76.4		118	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	82.2	2.00	"	77.2		107	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	65.0	5.00	"	76.0		85.6	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	94.3	2.00	"	76.8		123	50-175				
Perfluoro-n-butanoic acid (PFBA)	91.6	2.00	"	80.0		115	50-130				
Surrogate: M3PFBS	*65.0*		"	*74.3*		*87.4*	*25-150*				
Surrogate: M5PFHxA	*64.0*		"	*80.0*		*80.0*	*25-150*				
Surrogate: M4PFHpA	*60.4*		"	*80.0*		*75.5*	*25-150*				
Surrogate: M3PFHxS	*67.9*		"	*75.7*		*89.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.8*		"	*80.0*		*74.8*	*25-150*				
Surrogate: M6PFDA	*59.3*		"	*80.0*		*74.1*	*25-150*				
Surrogate: M7PFUdA	*66.0*		"	*80.0*		*82.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*65.3*		"	*80.0*		*81.6*	*25-150*				
Surrogate: M2PFTeDA	*74.5*		"	*80.0*		*93.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*71.0*		"	*80.0*		*88.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*68.2*		"	*76.6*		*89.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*68.4*		"	*80.0*		*85.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*47.9*		"	*80.0*		*59.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*68.0*		"	*80.0*		*85.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*63.4*		"	*80.0*		*79.2*	*25-150*				
Surrogate: M2-6:2 FTS	*81.4*		"	*75.9*		*107*	*25-200*				
Surrogate: M2-8:2 FTS	*62.4*		"	*76.6*		*81.4*	*25-200*				
Surrogate: M9PFNA	*60.9*		"	*80.0*		*76.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF20560 - SPE Ext-PFAS-EPA 537.1M											
LCS Dup (BF20560-BSD1)							Prepared & Analyzed: 06/09/2022				
Perfluorobutanesulfonic acid (PFBS)	79.6	2.00	ng/L	70.8		112	50-130		10.9	30	
Perfluorohexanoic acid (PFHxA)	89.4	2.00	"	80.0		112	50-130		6.80	30	
Perfluoroheptanoic acid (PFHpA)	97.8	2.00	"	80.0		122	50-130		5.38	30	
Perfluorohexanesulfonic acid (PFHxS)	82.3	2.00	"	72.8		113	50-130		3.30	30	
Perfluorooctanoic acid (PFOA)	101	2.00	"	80.0		127	50-130		0.166	30	
Perfluorooctanesulfonic acid (PFOS)	75.9	2.00	"	74.0		103	50-130		7.18	30	
Perfluorononanoic acid (PFNA)	86.6	2.00	"	80.0		108	50-130		7.79	30	
Perfluorodecanoic acid (PFDA)	95.5	2.00	"	80.0		119	50-130		3.65	30	
Perfluoroundecanoic acid (PFUnA)	86.2	2.00	"	80.0		108	50-130		0.701	30	
Perfluorododecanoic acid (PFDoA)	91.7	2.00	"	80.0		115	50-130		1.08	30	
Perfluorotridecanoic acid (PFTrDA)	85.1	2.00	"	80.0		106	50-130		0.905	30	
Perfluorotetradecanoic acid (PFTA)	81.0	2.00	"	80.0		101	50-130		1.41	30	
N-MeFOSAA	85.3	2.00	"	80.0		107	50-130		6.60	30	
N-EtFOSAA	88.4	2.00	"	80.0		111	50-130		0.0286	30	
Perfluoropentanoic acid (PFPeA)	85.7	2.00	"	80.0		107	50-130		6.59	30	
Perfluoro-1-octanesulfonamide (FOSA)	103	2.00	"	80.0		129	50-130		11.3	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	89.5	2.00	"	76.4		117	50-130		0.836	30	
Perfluoro-1-decanesulfonic acid (PFDS)	74.8	2.00	"	77.2		96.9	50-130		9.45	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	86.2	5.00	"	76.0		113	50-175		27.9	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	84.3	2.00	"	76.8		110	50-175		11.1	30	
Perfluoro-n-butanoic acid (PFBA)	89.8	2.00	"	80.0		112	50-130		2.05	30	
Surrogate: M3PFBS	*69.9*		"	*74.3*		*94.1*	*25-150*				
Surrogate: M5PFHxA	*68.9*		"	*80.0*		*86.1*	*25-150*				
Surrogate: M4PFHpA	*61.1*		"	*80.0*		*76.3*	*25-150*				
Surrogate: M3PFHxS	*65.8*		"	*75.7*		*86.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.4*		"	*80.0*		*74.2*	*25-150*				
Surrogate: M6PFDA	*61.9*		"	*80.0*		*77.3*	*25-150*				
Surrogate: M7PFUdA	*71.0*		"	*80.0*		*88.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*65.1*		"	*80.0*		*81.4*	*25-150*				
Surrogate: M2PFTeDA	*71.9*		"	*80.0*		*89.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*72.3*		"	*80.0*		*90.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*75.1*		"	*76.6*		*98.1*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*70.9*		"	*80.0*		*88.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.4*		"	*80.0*		*63.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.8*		"	*80.0*		*79.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*65.1*		"	*80.0*		*81.3*	*25-150*				
Surrogate: M2-6:2 FTS	*62.4*		"	*75.9*		*82.2*	*25-200*				
Surrogate: M2-8:2 FTS	*69.3*		"	*76.6*		*90.4*	*25-200*				
Surrogate: M9PFNA	*67.7*		"	*80.0*		*84.7*	*25-150*				


YORK

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to correct a Sample ID.

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

22F0242 Temp 1.4° C Pg of

PHOENIX Environmental Laboratories, Inc.

Page 1 of 1
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax: 860-645-0823
[ ] Phone: 800-827-5426
[ ] Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories
Address: 120 Research Drive
Stratford, CT
(203) 325-1371

Project #: GCL45757
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCL45757

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	PFAS (21) E537 modified	250ml HDPE Plastic As Is
	GW-2 FB	GW	5/31/2022	9:00 AM	x	2
	SB-2 / GW-2 (17.5')	GW	5/31/2022	2:00 PM	x	2
	SB-7 / GW-2 (17.15')	GW	5/31/2022	4:00 PM	x	2
	SB-3 / GW-3 (16.68')	GW	5/31/2022	1:55 PM	x	2
	SB-4 / GW-4 (17.35')	GW	5/31/2022	4:40 PM	x	2
	SB-5 / GW-5 (17.19')	GW	5/31/2022	3:20 PM	x	2
	SB-6 / GW-6 (16.20')	GW	5/31/2022	1:00 PM	x	2

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6-3-22	645
[signature]	[signature]	6/3/22	1211

Turnaround:
[ ] 1 Day
[ ] 2 Days
[ ] 3 Days
[ ] 5 Days
[ ] 10 Days
[X] Standard
[ ] Other_____

Report Type:
[X] Standard PDF
[ ] Full Data Package
[ ] NJ Reduced Deliverable
[ ] NJ Full Deliverable
[X] NY ASP B

EDD Format:
[ ] Excel
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other:_____

State Criteria:
NY: TAGM/TOGS GW

What State were samples collected?
NY

Comments, Special Requirements or Regulations:

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.
Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, June 07, 2022

Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Project ID: **1665 STILLWELL AVENUE**
SDG ID: **GCL45752**
Sample ID#s: **CL45752 - CL45756**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

June 07, 2022

SDG I.D.: GCL45752

Project ID: 1665 STILLWELL AVENUE

Client Id	Lab Id	Matrix
SV-2	CL45752	AIR
SV-1	CL45753	AIR
SV-3	CL45754	AIR
SV-4	CL45755	AIR
OA-1	CL45756	AIR

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 07, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DS	05/31/22	16:05
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	488				

Laboratory Data

SDG ID: GCL45752
Phoenix ID: CL45752

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.729*	0.729	ND	*5.00*	5.00	06/01/22	KCA	5	1
1,1,1-Trichloroethane	ND	*0.917*	0.917	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1,2,2-Tetrachloroethane	ND	*0.729*	0.729	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1,2-Trichloroethane	ND	*0.917*	0.917	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1-Dichloroethane	ND	*1.24*	1.24	ND	*5.02*	5.02	06/01/22	KCA	5	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	5	
1,2,4-Trichlorobenzene	ND	*0.674*	0.674	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2,4-Trimethylbenzene	101	*1.02*	1.02	496	*5.01*	5.01	06/01/22	KCA	5	
1,2-Dibromoethane(EDB)	ND	*0.651*	0.651	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2-Dichloroethane	ND	*1.24*	1.24	ND	*5.02*	5.02	06/01/22	KCA	5	
1,2-dichloropropane	ND	*1.08*	1.08	ND	*4.99*	4.99	06/01/22	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	*0.716*	0.716	ND	*5.00*	5.00	06/01/22	KCA	5	
1,3,5-Trimethylbenzene	24.4	*1.02*	1.02	120	*5.01*	5.01	06/01/22	KCA	5	
1,3-Butadiene	ND	*2.26*	2.26	ND	*5.00*	5.00	06/01/22	KCA	5	
1,3-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,4-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,4-Dioxane	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	
2-Hexanone(MBK)	ND	*1.22*	1.22	ND	*4.99*	4.99	06/01/22	KCA	5	1
4-Ethyltoluene	110	*1.02*	1.02	540	*5.01*	5.01	06/01/22	KCA	5	1
4-Isopropyltoluene	3.11	*0.911*	0.911	17.1	*5.00*	5.00	06/01/22	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	*1.22*	1.22	ND	*4.99*	4.99	06/01/22	KCA	5	
Acetone	556	*6.32*	6.32	1320	*15.0*	15.0	06/02/22	KCA	15	
Acrylonitrile	ND	*2.31*	2.31	ND	*5.01*	5.01	06/01/22	KCA	5	
Benzene	81.1	*1.57*	1.57	259	*5.01*	5.01	06/01/22	KCA	5	
Benzyl chloride	ND	*0.966*	0.966	ND	*5.00*	5.00	06/01/22	KCA	5	

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-2

Phoenix I.D.: CL45752

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.747*	0.747	ND	*5.00*	5.00	06/01/22	KCA	5	
Bromoform	ND	*0.484*	0.484	ND	*5.00*	5.00	06/01/22	KCA	5	
Bromomethane	ND	*1.29*	1.29	ND	*5.01*	5.01	06/01/22	KCA	5	
Carbon Disulfide	9.08	*1.61*	1.61	28.3	*5.01*	5.01	06/01/22	KCA	5	
Carbon Tetrachloride	ND	*0.159*	0.159	ND	*1.00*	1.00	06/01/22	KCA	5	
Chlorobenzene	ND	*1.09*	1.09	ND	*5.01*	5.01	06/01/22	KCA	5	
Chloroethane	ND	*1.90*	1.90	ND	*5.01*	5.01	06/01/22	KCA	5	
Chloroform	ND	*1.02*	1.02	ND	*4.98*	4.98	06/01/22	KCA	5	
Chloromethane	ND	*2.42*	2.42	ND	*4.99*	4.99	06/01/22	KCA	5	
Cis-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	5	
cis-1,3-Dichloropropene	ND	*1.10*	1.10	ND	*4.99*	4.99	06/01/22	KCA	5	
Cyclohexane	ND	*1.45*	1.45	ND	*4.99*	4.99	06/01/22	KCA	5	
Dibromochloromethane	ND	*0.587*	0.587	ND	*5.00*	5.00	06/01/22	KCA	5	
Dichlorodifluoromethane	83.7	*1.01*	1.01	414	*4.99*	4.99	06/01/22	KCA	5	
Ethanol	346	*7.97*	7.97	652	*15.0*	15.0	06/02/22	KCA	15	1
Ethyl acetate	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	1
Ethylbenzene	69.1	*1.15*	1.15	300	*4.99*	4.99	06/01/22	KCA	5	
Heptane	108	*1.22*	1.22	442	*5.00*	5.00	06/01/22	KCA	5	
Hexachlorobutadiene	ND	*0.469*	0.469	ND	*5.00*	5.00	06/01/22	KCA	5	
Hexane	311	*4.26*	4.26	1100	*15.0*	15.0	06/02/22	KCA	15	
Isopropylalcohol	15.2	*2.04*	2.04	37.3	*5.01*	5.01	06/01/22	KCA	5	
Isopropylbenzene	4.85	*1.02*	1.02	23.8	*5.01*	5.01	06/01/22	KCA	5	
m,p-Xylene	297	*1.15*	1.15	1290	*4.99*	4.99	06/01/22	KCA	5	
Methyl Ethyl Ketone	36.2	*1.70*	1.70	107	*5.01*	5.01	06/01/22	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	
Methylene Chloride	ND	*4.32*	4.32	ND	*15.0*	15.0	06/01/22	KCA	5	
n-Butylbenzene	ND	*0.911*	0.911	ND	*5.00*	5.00	06/01/22	KCA	5	1
o-Xylene	82.9	*1.15*	1.15	360	*4.99*	4.99	06/01/22	KCA	5	
Propylene	3.02	*2.91*	2.91	5.19	*5.01*	5.01	06/01/22	KCA	5	1
sec-Butylbenzene	1.60	*0.911*	0.911	8.78	*5.00*	5.00	06/01/22	KCA	5	1
Styrene	4.44	*1.17*	1.17	18.9	*4.98*	4.98	06/01/22	KCA	5	
Tetrachloroethene	15.4	*0.184*	0.184	104	*1.25*	1.25	06/01/22	KCA	5	
Tetrahydrofuran	4.27	*1.70*	1.70	12.6	*5.01*	5.01	06/01/22	KCA	5	1
Toluene	657	*7.97*	7.97	2470	*30.0*	30.0	06/03/22	KCA	30	
Trans-1,2-Dichloroethene	ND	*1.26*	1.26	ND	*4.99*	4.99	06/01/22	KCA	5	
trans-1,3-Dichloropropene	ND	*1.10*	1.10	ND	*4.99*	4.99	06/01/22	KCA	5	
Trichloroethene	0.690	*0.185*	0.185	3.71	*0.99*	0.99	06/01/22	KCA	5	
Trichlorofluoromethane	ND	*0.891*	0.891	ND	*5.00*	5.00	06/01/22	KCA	5	
Trichlorotrifluoroethane	ND	*0.653*	0.653	ND	*5.00*	5.00	06/01/22	KCA	5	
Vinyl Chloride	ND	*0.390*	0.390	ND	*1.00*	1.00	06/01/22	KCA	5	
QA/QC Surrogates/Internals										
% Bromofluorobenzene (5x)	96	%	%	96	%	%	06/01/22	KCA	5	
% IS-1,4-Difluorobenzene (5x)	112	%	%	112	%	%	06/01/22	KCA	5	
% IS-Bromochloromethane (5x)	105	%	%	105	%	%	06/01/22	KCA	5	
% IS-Chlorobenzene-d5 (5x)	128	%	%	128	%	%	06/01/22	KCA	5	
% Bromofluorobenzene (15x)	95	%	%	95	%	%	06/02/22	KCA	15	
% IS-1,4-Difluorobenzene (15x)	125	%	%	125	%	%	06/02/22	KCA	15	
% IS-Bromochloromethane (15x)	114	%	%	114	%	%	06/02/22	KCA	15	
% IS-Chlorobenzene-d5 (15x)	127	%	%	127	%	%	06/02/22	KCA	15	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Phoenix I.D.: CL45752
Client ID: SV-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% Bromofluorobenzene (30x)	95	%	%	95	%	%	06/03/22	KCA	30
% IS-1,4-Difluorobenzene (30x)	115	%	%	115	%	%	06/03/22	KCA	30
% IS-Bromochloromethane (30x)	107	%	%	107	%	%	06/03/22	KCA	30
% IS-Chlorobenzene-d5 (30x)	113	%	%	113	%	%	06/03/22	KCA	30

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Elevated reporting limits have been reported due to the presence of reported target compounds in the TO15 list above the calibration. Sample was run at an initial dilution.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 07, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 07, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DS	05/31/22	15:55
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	19631				

Laboratory Data

SDG ID: GCL45752
Phoenix ID: CL45753

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.729*	0.729	ND	*5.00*	5.00	06/01/22	KCA	5	1
1,1,1-Trichloroethane	ND	*0.917*	0.917	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1,2,2-Tetrachloroethane	ND	*0.729*	0.729	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1,2-Trichloroethane	ND	*0.917*	0.917	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1-Dichloroethane	ND	*1.24*	1.24	ND	*5.02*	5.02	06/01/22	KCA	5	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	5	
1,2,4-Trichlorobenzene	ND	*0.674*	0.674	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2,4-Trimethylbenzene	125	*1.02*	1.02	614	*5.01*	5.01	06/01/22	KCA	5	
1,2-Dibromoethane(EDB)	ND	*0.651*	0.651	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2-Dichloroethane	ND	*1.24*	1.24	ND	*5.02*	5.02	06/01/22	KCA	5	
1,2-dichloropropane	ND	*1.08*	1.08	ND	*4.99*	4.99	06/01/22	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	*0.716*	0.716	ND	*5.00*	5.00	06/01/22	KCA	5	
1,3,5-Trimethylbenzene	27.6	*1.02*	1.02	136	*5.01*	5.01	06/01/22	KCA	5	
1,3-Butadiene	ND	*2.26*	2.26	ND	*5.00*	5.00	06/01/22	KCA	5	
1,3-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,4-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,4-Dioxane	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	
2-Hexanone(MBK)	ND	*1.22*	1.22	ND	*4.99*	4.99	06/01/22	KCA	5	1
4-Ethyltoluene	132	*1.02*	1.02	648	*5.01*	5.01	06/01/22	KCA	5	1
4-Isopropyltoluene	3.19	*0.911*	0.911	17.5	*5.00*	5.00	06/01/22	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	*1.22*	1.22	ND	*4.99*	4.99	06/01/22	KCA	5	
Acetone	521	*6.32*	6.32	1240	*15.0*	15.0	06/02/22	KCA	15	
Acrylonitrile	ND	*2.31*	2.31	ND	*5.01*	5.01	06/01/22	KCA	5	
Benzene	74.9	*1.57*	1.57	239	*5.01*	5.01	06/01/22	KCA	5	
Benzyl chloride	ND	*0.966*	0.966	ND	*5.00*	5.00	06/01/22	KCA	5	

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-1

Phoenix I.D.: CL45753

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.747*	0.747	ND	*5.00*	5.00	06/01/22	KCA	5	
Bromoform	ND	*0.484*	0.484	ND	*5.00*	5.00	06/01/22	KCA	5	
Bromomethane	ND	*1.29*	1.29	ND	*5.01*	5.01	06/01/22	KCA	5	
Carbon Disulfide	9.37	*1.61*	1.61	29.2	*5.01*	5.01	06/01/22	KCA	5	
Carbon Tetrachloride	ND	*0.159*	0.159	ND	*1.00*	1.00	06/01/22	KCA	5	
Chlorobenzene	ND	*1.09*	1.09	ND	*5.01*	5.01	06/01/22	KCA	5	
Chloroethane	ND	*1.90*	1.90	ND	*5.01*	5.01	06/01/22	KCA	5	
Chloroform	3.41	*1.02*	1.02	16.6	*4.98*	4.98	06/01/22	KCA	5	
Chloromethane	ND	*2.42*	2.42	ND	*4.99*	4.99	06/01/22	KCA	5	
Cis-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	5	
cis-1,3-Dichloropropene	ND	*1.10*	1.10	ND	*4.99*	4.99	06/01/22	KCA	5	
Cyclohexane	ND	*1.45*	1.45	ND	*4.99*	4.99	06/01/22	KCA	5	
Dibromochloromethane	ND	*0.587*	0.587	ND	*5.00*	5.00	06/01/22	KCA	5	
Dichlorodifluoromethane	82.5	*1.01*	1.01	408	*4.99*	4.99	06/01/22	KCA	5	
Ethanol	535	*7.97*	7.97	1010	*15.0*	15.0	06/02/22	KCA	15	1
Ethyl acetate	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	1
Ethylbenzene	76.2	*1.15*	1.15	331	*4.99*	4.99	06/01/22	KCA	5	
Heptane	103	*1.22*	1.22	422	*5.00*	5.00	06/01/22	KCA	5	
Hexachlorobutadiene	ND	*0.469*	0.469	ND	*5.00*	5.00	06/01/22	KCA	5	
Hexane	193	*1.42*	1.42	680	*5.00*	5.00	06/01/22	KCA	5	
Isopropylalcohol	15.5	*2.04*	2.04	38.1	*5.01*	5.01	06/01/22	KCA	5	
Isopropylbenzene	5.52	*1.02*	1.02	27.1	*5.01*	5.01	06/01/22	KCA	5	
m,p-Xylene	315	*1.15*	1.15	1370	*4.99*	4.99	06/01/22	KCA	5	
Methyl Ethyl Ketone	43.7	*1.70*	1.70	129	*5.01*	5.01	06/01/22	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	
Methylene Chloride	ND	*4.32*	4.32	ND	*15.0*	15.0	06/01/22	KCA	5	
n-Butylbenzene	ND	*0.911*	0.911	ND	*5.00*	5.00	06/01/22	KCA	5	1
o-Xylene	90.8	*1.15*	1.15	394	*4.99*	4.99	06/01/22	KCA	5	
Propylene	7.39	*2.91*	2.91	12.7	*5.01*	5.01	06/01/22	KCA	5	1
sec-Butylbenzene	1.66	*0.911*	0.911	9.11	*5.00*	5.00	06/01/22	KCA	5	1
Styrene	4.59	*1.17*	1.17	19.5	*4.98*	4.98	06/01/22	KCA	5	
Tetrachloroethene	135	*0.184*	0.184	915	*1.25*	1.25	06/01/22	KCA	5	
Tetrahydrofuran	4.07	*1.70*	1.70	12.0	*5.01*	5.01	06/01/22	KCA	5	1
Toluene	804	*7.97*	7.97	3030	*30.0*	30.0	06/03/22	KCA	30	
Trans-1,2-Dichloroethene	ND	*1.26*	1.26	ND	*4.99*	4.99	06/01/22	KCA	5	
trans-1,3-Dichloropropene	ND	*1.10*	1.10	ND	*4.99*	4.99	06/01/22	KCA	5	
Trichloroethene	3.29	*0.185*	0.185	17.7	*0.99*	0.99	06/01/22	KCA	5	
Trichlorofluoromethane	ND	*0.891*	0.891	ND	*5.00*	5.00	06/01/22	KCA	5	
Trichlorotrifluoroethane	ND	*0.653*	0.653	ND	*5.00*	5.00	06/01/22	KCA	5	
Vinyl Chloride	ND	*0.390*	0.390	ND	*1.00*	1.00	06/01/22	KCA	5	
QA/QC Surrogates/Internals										
% Bromofluorobenzene (5x)	92	%	%	92	%	%	06/01/22	KCA	5	
% IS-1,4-Difluorobenzene (5x)	117	%	%	117	%	%	06/01/22	KCA	5	
% IS-Bromochloromethane (5x)	113	%	%	113	%	%	06/01/22	KCA	5	
% IS-Chlorobenzene-d5 (5x)	141	%	%	141	%	%	06/01/22	KCA	5	3
% Bromofluorobenzene (15x)	97	%	%	97	%	%	06/02/22	KCA	15	
% IS-1,4-Difluorobenzene (15x)	125	%	%	125	%	%	06/02/22	KCA	15	
% IS-Bromochloromethane (15x)	113	%	%	113	%	%	06/02/22	KCA	15	
% IS-Chlorobenzene-d5 (15x)	127	%	%	127	%	%	06/02/22	KCA	15	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-1

Phoenix I.D.: CL45753

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% Bromofluorobenzene (30x)	95	%	%	95	%	%	06/03/22	KCA	30
% IS-1,4-Difluorobenzene (30x)	112	%	%	112	%	%	06/03/22	KCA	30
% IS-Bromochloromethane (30x)	109	%	%	109	%	%	06/03/22	KCA	30
% IS-Chlorobenzene-d5 (30x)	114	%	%	114	%	%	06/03/22	KCA	30

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 07, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 07, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DS	05/31/22	16:20
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	28561				

Laboratory Data

SDG ID: GCL45752
Phoenix ID: CL45754

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	06/02/22	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	06/02/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	06/02/22	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	06/02/22	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	06/02/22	KCA	1	
1,1-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	06/02/22	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	06/02/22	KCA	1	
1,2,4-Trimethylbenzene	16.2	*0.204*	0.204	79.6	*1.00*	1.00	06/02/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	06/02/22	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	06/02/22	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	06/02/22	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	06/02/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	06/02/22	KCA	1	
1,3,5-Trimethylbenzene	3.70	*0.204*	0.204	18.2	*1.00*	1.00	06/02/22	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	06/02/22	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	06/02/22	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	06/02/22	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	06/02/22	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	06/02/22	KCA	1	1
4-Ethyltoluene	15.2	*0.204*	0.204	74.7	*1.00*	1.00	06/02/22	KCA	1	1
4-Isopropyltoluene	0.508	*0.182*	0.182	2.79	*1.00*	1.00	06/02/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	06/02/22	KCA	1	
Acetone	89.3	*2.11*	2.11	212	*5.01*	5.01	06/01/22	KCA	5	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	06/02/22	KCA	1	
Benzene	9.63	*0.313*	0.313	30.7	*1.00*	1.00	06/02/22	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	06/02/22	KCA	1	

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-3

Phoenix I.D.: CL45754

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	06/02/22	KCA	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	06/02/22	KCA	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	06/02/22	KCA	1	
Carbon Disulfide	0.591	*0.321*	0.321	1.84	*1.00*	1.00	06/02/22	KCA	1	
Carbon Tetrachloride	0.081	*0.032*	0.032	0.51	*0.20*	0.20	06/02/22	KCA	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	06/02/22	KCA	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	06/02/22	KCA	1	
Chloroform	ND	*0.205*	0.205	ND	*1.00*	1.00	06/02/22	KCA	1	
Chloromethane	0.650	*0.485*	0.485	1.34	*1.00*	1.00	06/02/22	KCA	1	
Cis-1,2-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	06/02/22	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	06/02/22	KCA	1	
Cyclohexane	6.86	*0.291*	0.291	23.6	*1.00*	1.00	06/02/22	KCA	1	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	06/02/22	KCA	1	
Dichlorodifluoromethane	0.475	*0.202*	0.202	2.35	*1.00*	1.00	06/02/22	KCA	1	
Ethanol	75.4	*2.66*	2.66	142	*5.01*	5.01	06/01/22	KCA	5	1
Ethyl acetate	0.314	*0.278*	0.278	1.13	*1.00*	1.00	06/02/22	KCA	1	1
Ethylbenzene	8.69	*0.230*	0.230	37.7	*1.00*	1.00	06/02/22	KCA	1	
Heptane	20.0	*0.244*	0.244	81.9	*1.00*	1.00	06/02/22	KCA	1	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	06/02/22	KCA	1	
Hexane	31.8	*0.284*	0.284	112	*1.00*	1.00	06/02/22	KCA	1	
Isopropylalcohol	4.40	*0.407*	0.407	10.8	*1.00*	1.00	06/02/22	KCA	1	
Isopropylbenzene	0.915	*0.204*	0.204	4.50	*1.00*	1.00	06/02/22	KCA	1	
m,p-Xylene	35.4	*0.230*	0.230	154	*1.00*	1.00	06/02/22	KCA	1	
Methyl Ethyl Ketone	4.54	*0.339*	0.339	13.4	*1.00*	1.00	06/02/22	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	06/02/22	KCA	1	
Methylene Chloride	ND	*0.863*	0.863	ND	*3.00*	3.00	06/02/22	KCA	1	
n-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	06/02/22	KCA	1	1
o-Xylene	11.5	*0.230*	0.230	49.9	*1.00*	1.00	06/02/22	KCA	1	
Propylene	2.14	*0.581*	0.581	3.68	*1.00*	1.00	06/02/22	KCA	1	1
sec-Butylbenzene	0.228	*0.182*	0.182	1.25	*1.00*	1.00	06/02/22	KCA	1	1
Styrene	0.427	*0.235*	0.235	1.82	*1.00*	1.00	06/02/22	KCA	1	
Tetrachloroethene	0.168	*0.037*	0.037	1.14	*0.25*	0.25	06/02/22	KCA	1	
Tetrahydrofuran	0.633	*0.339*	0.339	1.87	*1.00*	1.00	06/02/22	KCA	1	1
Toluene	98.9	*1.33*	1.33	372	*5.01*	5.01	06/01/22	KCA	5	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/02/22	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	06/02/22	KCA	1	
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	06/02/22	KCA	1	
Trichlorofluoromethane	0.227	*0.178*	0.178	1.27	*1.00*	1.00	06/02/22	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	06/02/22	KCA	1	
Vinyl Chloride	ND	*0.078*	0.078	ND	*0.20*	0.20	06/02/22	KCA	1	
QA/QC Surrogates/Internals										
% Bromofluorobenzene	96	%	%	96	%	%	06/02/22	KCA	1	
% IS-1,4-Difluorobenzene	108	%	%	108	%	%	06/02/22	KCA	1	
% IS-Bromochloromethane	104	%	%	104	%	%	06/02/22	KCA	1	
% IS-Chlorobenzene-d5	122	%	%	122	%	%	06/02/22	KCA	1	
% Bromofluorobenzene (5x)	100	%	%	100	%	%	06/01/22	KCA	5	
% IS-1,4-Difluorobenzene (5x)	121	%	%	121	%	%	06/01/22	KCA	5	
% IS-Bromochloromethane (5x)	119	%	%	119	%	%	06/01/22	KCA	5	
% IS-Chlorobenzene-d5 (5x)	122	%	%	122	%	%	06/01/22	KCA	5	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Phoenix I.D.: CL45754
Client ID: SV-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 07, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 07, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DS	05/31/22	16:35
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	485				

Laboratory Data

SDG ID: GCL45752
Phoenix ID: CL45755

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.729*	0.729	ND	*5.00*	5.00	06/01/22	KCA	5	1
1,1,1-Trichloroethane	ND	*0.917*	0.917	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1,2,2-Tetrachloroethane	ND	*0.729*	0.729	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1,2-Trichloroethane	ND	*0.917*	0.917	ND	*5.00*	5.00	06/01/22	KCA	5	
1,1-Dichloroethane	ND	*1.24*	1.24	ND	*5.02*	5.02	06/01/22	KCA	5	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	5	
1,2,4-Trichlorobenzene	ND	*0.674*	0.674	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2,4-Trimethylbenzene	82.1	*1.02*	1.02	403	*5.01*	5.01	06/01/22	KCA	5	
1,2-Dibromoethane(EDB)	ND	*0.651*	0.651	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,2-Dichloroethane	ND	*1.24*	1.24	ND	*5.02*	5.02	06/01/22	KCA	5	
1,2-dichloropropane	ND	*1.08*	1.08	ND	*4.99*	4.99	06/01/22	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	*0.716*	0.716	ND	*5.00*	5.00	06/01/22	KCA	5	
1,3,5-Trimethylbenzene	19.4	*1.02*	1.02	95.3	*5.01*	5.01	06/01/22	KCA	5	
1,3-Butadiene	ND	*2.26*	2.26	ND	*5.00*	5.00	06/01/22	KCA	5	
1,3-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,4-Dichlorobenzene	ND	*0.832*	0.832	ND	*5.00*	5.00	06/01/22	KCA	5	
1,4-Dioxane	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	
2-Hexanone(MBK)	ND	*1.22*	1.22	ND	*4.99*	4.99	06/01/22	KCA	5	1
4-Ethyltoluene	94.0	*1.02*	1.02	462	*5.01*	5.01	06/01/22	KCA	5	1
4-Isopropyltoluene	2.37	*0.911*	0.911	13.0	*5.00*	5.00	06/01/22	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	*1.22*	1.22	ND	*4.99*	4.99	06/01/22	KCA	5	
Acetone	441	*12.6*	12.6	1050	*29.9*	29.9	06/03/22	KCA	30	
Acrylonitrile	ND	*2.31*	2.31	ND	*5.01*	5.01	06/01/22	KCA	5	
Benzene	70.1	*1.57*	1.57	224	*5.01*	5.01	06/01/22	KCA	5	
Benzyl chloride	ND	*0.966*	0.966	ND	*5.00*	5.00	06/01/22	KCA	5	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Client ID: SV-4

Phoenix I.D.: CL45755

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.747*	0.747	ND	*5.00*	5.00	06/01/22	KCA	5	
Bromoform	ND	*0.484*	0.484	ND	*5.00*	5.00	06/01/22	KCA	5	
Bromomethane	ND	*1.29*	1.29	ND	*5.01*	5.01	06/01/22	KCA	5	
Carbon Disulfide	8.68	*1.61*	1.61	27.0	*5.01*	5.01	06/01/22	KCA	5	
Carbon Tetrachloride	ND	*0.159*	0.159	ND	*1.00*	1.00	06/01/22	KCA	5	
Chlorobenzene	ND	*1.09*	1.09	ND	*5.01*	5.01	06/01/22	KCA	5	
Chloroethane	ND	*1.90*	1.90	ND	*5.01*	5.01	06/01/22	KCA	5	
Chloroform	ND	*1.02*	1.02	ND	*4.98*	4.98	06/01/22	KCA	5	
Chloromethane	ND	*2.42*	2.42	ND	*4.99*	4.99	06/01/22	KCA	5	
Cis-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	5	
cis-1,3-Dichloropropene	ND	*1.10*	1.10	ND	*4.99*	4.99	06/01/22	KCA	5	
Cyclohexane	ND	*1.45*	1.45	ND	*4.99*	4.99	06/01/22	KCA	5	
Dibromochloromethane	ND	*0.587*	0.587	ND	*5.00*	5.00	06/01/22	KCA	5	
Dichlorodifluoromethane	ND	*1.01*	1.01	ND	*4.99*	4.99	06/01/22	KCA	5	
Ethanol	305	*15.9*	15.9	574	*29.9*	29.9	06/03/22	KCA	30	1
Ethyl acetate	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	1
Ethylbenzene	69.9	*1.15*	1.15	303	*4.99*	4.99	06/01/22	KCA	5	
Heptane	94.9	*1.22*	1.22	389	*5.00*	5.00	06/01/22	KCA	5	
Hexachlorobutadiene	ND	*0.469*	0.469	ND	*5.00*	5.00	06/01/22	KCA	5	
Hexane	162	*1.42*	1.42	571	*5.00*	5.00	06/01/22	KCA	5	
Isopropylalcohol	14.4	*2.04*	2.04	35.4	*5.01*	5.01	06/01/22	KCA	5	
Isopropylbenzene	4.26	*1.02*	1.02	20.9	*5.01*	5.01	06/01/22	KCA	5	
m,p-Xylene	284	*1.15*	1.15	1230	*4.99*	4.99	06/01/22	KCA	5	
Methyl Ethyl Ketone	33.8	*1.70*	1.70	100	*5.01*	5.01	06/01/22	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	*1.39*	1.39	ND	*5.01*	5.01	06/01/22	KCA	5	
Methylene Chloride	ND	*4.32*	4.32	ND	*15.0*	15.0	06/01/22	KCA	5	
n-Butylbenzene	5.03	*0.911*	0.911	27.6	*5.00*	5.00	06/01/22	KCA	5	1
o-Xylene	77.4	*1.15*	1.15	336	*4.99*	4.99	06/01/22	KCA	5	
Propylene	14.9	*2.91*	2.91	25.6	*5.01*	5.01	06/01/22	KCA	5	1
sec-Butylbenzene	1.50	*0.911*	0.911	8.23	*5.00*	5.00	06/01/22	KCA	5	1
Styrene	4.46	*1.17*	1.17	19.0	*4.98*	4.98	06/01/22	KCA	5	
Tetrachloroethene	5.78	*0.184*	0.184	39.2	*1.25*	1.25	06/01/22	KCA	5	
Tetrahydrofuran	7.34	*1.70*	1.70	21.6	*5.01*	5.01	06/01/22	KCA	5	1
Toluene	741	*7.97*	7.97	2790	*30.0*	30.0	06/03/22	KCA	30	
Trans-1,2-Dichloroethene	ND	*1.26*	1.26	ND	*4.99*	4.99	06/01/22	KCA	5	
trans-1,3-Dichloropropene	ND	*1.10*	1.10	ND	*4.99*	4.99	06/01/22	KCA	5	
Trichloroethene	0.660	*0.185*	0.185	3.54	*0.99*	0.99	06/01/22	KCA	5	
Trichlorofluoromethane	ND	*0.891*	0.891	ND	*5.00*	5.00	06/01/22	KCA	5	
Trichlorotrifluoroethane	ND	*0.653*	0.653	ND	*5.00*	5.00	06/01/22	KCA	5	
Vinyl Chloride	ND	*0.390*	0.390	ND	*1.00*	1.00	06/01/22	KCA	5	
QA/QC Surrogates/Internals										
% Bromofluorobenzene (5x)	95	%	%	95	%	%	06/01/22	KCA	5	
% IS-1,4-Difluorobenzene (5x)	116	%	%	116	%	%	06/01/22	KCA	5	
% IS-Bromochloromethane (5x)	113	%	%	113	%	%	06/01/22	KCA	5	
% IS-Chlorobenzene-d5 (5x)	139	%	%	139	%	%	06/01/22	KCA	5	
% Bromofluorobenzene (15x)	93	%	%	93	%	%	06/02/22	KCA	15	
% IS-1,4-Difluorobenzene (15x)	125	%	%	125	%	%	06/02/22	KCA	15	
% IS-Bromochloromethane (15x)	30	%	%	30	%	%	06/02/22	KCA	15	3
% IS-Chlorobenzene-d5 (15x)	131	%	%	131	%	%	06/02/22	KCA	15	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Phoenix I.D.: CL45755
Client ID: SV-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% Bromofluorobenzene (30x)	94	%	%	94	%	%	06/03/22	KCA	30
% IS-1,4-Difluorobenzene (30x)	114	%	%	114	%	%	06/03/22	KCA	30
% IS-Bromochloromethane (30x)	108	%	%	108	%	%	06/03/22	KCA	30
% IS-Chlorobenzene-d5 (30x)	115	%	%	115	%	%	06/03/22	KCA	30

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
June 07, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 07, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DS	05/31/22	16:30
Location Code:	RSK-ENV	Received by:	CP	06/01/22	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	28595				

Laboratory Data

SDG ID: GCL45752
Phoenix ID: CL45756

Project ID: 1665 STILLWELL AVENUE
Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	06/01/22	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	06/01/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	06/01/22	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	06/01/22	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	06/01/22	KCA	1	
1,1-Dichloroethene	ND	*0.051*	0.051	ND	*0.20*	0.20	06/01/22	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	06/01/22	KCA	1	
1,2,4-Trimethylbenzene	0.247	*0.204*	0.204	1.21	*1.00*	1.00	06/01/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	06/01/22	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	06/01/22	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	06/01/22	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	06/01/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	06/01/22	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	06/01/22	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	06/01/22	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	06/01/22	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	06/01/22	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	06/01/22	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	06/01/22	KCA	1	1
4-Ethyltoluene	0.206	*0.204*	0.204	1.01	*1.00*	1.00	06/01/22	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	06/01/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	06/01/22	KCA	1	
Acetone	7.89	*0.421*	0.421	18.7	*1.00*	1.00	06/01/22	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	06/01/22	KCA	1	
Benzene	ND	*0.313*	0.313	ND	*1.00*	1.00	06/01/22	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	06/01/22	KCA	1	

Project ID: 1665 STILLWELL AVENUE
Client ID: OA-1

Phoenix I.D.: CL45756

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	06/01/22	KCA	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	06/01/22	KCA	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	06/01/22	KCA	1	
Carbon Disulfide	ND		*0.321*	0.321	ND	*1.00*	1.00	06/01/22	KCA	1	
Carbon Tetrachloride	0.074		*0.032*	0.032	0.47	*0.20*	0.20	06/01/22	KCA	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	06/01/22	KCA	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	06/01/22	KCA	1	
Chloroform	ND		*0.205*	0.205	ND	*1.00*	1.00	06/01/22	KCA	1	
Chloromethane	0.566		*0.485*	0.485	1.17	*1.00*	1.00	06/01/22	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.051*	0.051	ND	*0.20*	0.20	06/01/22	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	06/01/22	KCA	1	
Cyclohexane	ND		*0.291*	0.291	ND	*1.00*	1.00	06/01/22	KCA	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	06/01/22	KCA	1	
Dichlorodifluoromethane	0.418		*0.202*	0.202	2.07	*1.00*	1.00	06/01/22	KCA	1	
Ethanol	44.6	E	*0.531*	0.531	84.0	*1.00*	1.00	06/01/22	KCA	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	06/01/22	KCA	1	1
Ethylbenzene	ND		*0.230*	0.230	ND	*1.00*	1.00	06/01/22	KCA	1	
Heptane	0.256		*0.244*	0.244	1.05	*1.00*	1.00	06/01/22	KCA	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	06/01/22	KCA	1	
Hexane	0.593		*0.284*	0.284	2.09	*1.00*	1.00	06/01/22	KCA	1	
Isopropylalcohol	2.41		*0.407*	0.407	5.92	*1.00*	1.00	06/01/22	KCA	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	06/01/22	KCA	1	
m,p-Xylene	0.382		*0.230*	0.230	1.66	*1.00*	1.00	06/01/22	KCA	1	
Methyl Ethyl Ketone	0.663		*0.339*	0.339	1.95	*1.00*	1.00	06/01/22	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	0.278	ND	*1.00*	1.00	06/01/22	KCA	1	
Methylene Chloride	ND		*0.863*	0.863	ND	*3.00*	3.00	06/01/22	KCA	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	06/01/22	KCA	1	1
o-Xylene	ND		*0.230*	0.230	ND	*1.00*	1.00	06/01/22	KCA	1	
Propylene	ND		*0.581*	0.581	ND	*1.00*	1.00	06/01/22	KCA	1	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	06/01/22	KCA	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	06/01/22	KCA	1	
Tetrachloroethene	0.060		*0.037*	0.037	0.41	*0.25*	0.25	06/01/22	KCA	1	
Tetrahydrofuran	ND		*0.339*	0.339	ND	*1.00*	1.00	06/01/22	KCA	1	1
Toluene	1.25		*0.266*	0.266	4.71	*1.00*	1.00	06/01/22	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	06/01/22	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	06/01/22	KCA	1	
Trichloroethene	ND		*0.037*	0.037	ND	*0.20*	0.20	06/01/22	KCA	1	
Trichlorofluoromethane	0.204		*0.178*	0.178	1.15	*1.00*	1.00	06/01/22	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	06/01/22	KCA	1	
Vinyl Chloride	ND		*0.078*	0.078	ND	*0.20*	0.20	06/01/22	KCA	1	
QA/QC Surrogates/Internals											
% Bromofluorobenzene	97		*%*	%	97	*%*	%	06/01/22	KCA	1	
% IS-1,4-Difluorobenzene	100		*%*	%	100	*%*	%	06/01/22	KCA	1	
% IS-Bromochloromethane	103		*%*	%	103	*%*	%	06/01/22	KCA	1	
% IS-Chlorobenzene-d5	101		*%*	%	101	*%*	%	06/01/22	KCA	1	

Ver 1

Project ID: 1665 STILLWELL AVENUE
Phoenix I.D.: CL45756
Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 07, 2022
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Canister Sampling Information

June 07, 2022

FOR: Attn: Selina Rahman
RSK Environmental
132-02 89th Ave Suite 211
Richmond Hill, NY 11418

Location Code: RSK-ENV

SDG I.D.: GCL45752

Project ID: 1665 STILLWELL AVENUE

						Laboratory					Field			
Client Id	Lab Id	Canister Id	Canister Type	Reg. Id	Chk Out Date	Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SV-2	CL45752	488	6.0L	10582	05/19/22	-30	-6	11.4	11	3.6	-30	-4	05/31/22 08:05	05/31/22 16:05
SV-1	CL45753	19631	6.0L	5381	05/19/22	-30	-6	11.2	11.6	3.5	-30	-6	05/31/22 07:55	05/31/22 15:55
SV-3	CL45754	28561	6.0L	10580	05/19/22	-30	-6	11.2	10.9	2.7	-30	-5	05/31/22 08:20	05/31/22 16:20
SV-4	CL45755	458	6.0L	5705	05/19/22	-30	-8	11.1	10.5	5.6	-30	-6	05/31/22 08:35	05/31/22 16:35
OA-1	CL45756	28595	6.0L	10595	05/19/22	-30	-5	11.3	11.6	2.6	-30	-3	05/31/22 08:30	05/31/22 16:30

Tuesday, June 07, 2022

Criteria: NY: AIRIA, AIRSV

State: NY

Sample Criteria Exceedances Report

GCL45752 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45752	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	15.4	0.184	0.443	0.443	ppbv
CL45752	$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	0.917	0.55	0.55	ppbv
CL45752	$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CL45752	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	0.159	0.032	0.032	ppbv
CL45752	$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	4.32	0.864	0.864	ppbv
CL45752	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.690	0.185	0.037	0.037	ppbv
CL45752	$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	0.390	0.078	0.078	ppbv
CL45752	$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CL45752	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	15.4	0.184	14.8	14.8	ppbv
CL45752	$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45752	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45752	$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45752	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	3.71	1.0	0.2	0.2	ug/m3
CL45752	$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	15	3	3	ug/m3
CL45752	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	104	1	3	3	ug/m3
CL45752	$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45752	$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	5	3	3	ug/m3
CL45752	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	104	1	100	100	ug/m3
CL45753	$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CL45753	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	0.159	0.032	0.032	ppbv
CL45753	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	3.29	0.185	0.037	0.037	ppbv
CL45753	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	135	0.184	0.443	0.443	ppbv
CL45753	$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	0.390	0.078	0.078	ppbv
CL45753	$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CL45753	$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	0.917	0.55	0.55	ppbv
CL45753	$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	4.32	0.864	0.864	ppbv
CL45753	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Sub-Slab Vapor	3.29	0.185	1.12	1.12	ppbv
CL45753	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	135	0.184	14.8	14.8	ppbv
CL45753	$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45753	$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	5	3	3	ug/m3
CL45753	$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45753	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45753	$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45753	$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	15	3	3	ug/m3
CL45753	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	915	1	3	3	ug/m3
CL45753	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	17.7	1.0	0.2	0.2	ug/m3
CL45753	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	915	1	100	100	ug/m3
CL45753	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Sub-Slab Vapor	17.7	1	6	6	ug/m3
CL45754	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.081	0.032	0.032	0.032	ppbv
CL45754	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.51	0.2	0.2	0.2	ug/m3

Tuesday, June 07, 2022

Criteria: NY: AIRIA, AIRSV

State: NY

Sample Criteria Exceedances Report

GCL45752 - RSK-ENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CL45755	$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	0.917	0.55	0.55	ppbv
CL45755	$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	0.390	0.078	0.078	ppbv
CL45755	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.660	0.185	0.037	0.037	ppbv
CL45755	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	5.78	0.184	0.443	0.443	ppbv
CL45755	$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	4.32	0.864	0.864	ppbv
CL45755	$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CL45755	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	0.159	0.032	0.032	ppbv
CL45755	$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	0.252	0.051	0.051	ppbv
CL45755	$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	3.54	1.0	0.2	0.2	ug/m3
CL45755	$AIR_NYTO15	Vinyl Chloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45755	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45755	$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	39.2	1	3	3	ug/m3
CL45755	$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	ND	15	3	3	ug/m3
CL45755	$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45755	$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	ND	5	3	3	ug/m3
CL45755	$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	ND	1.0	0.2	0.2	ug/m3
CL45756	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.074	0.032	0.032	0.032	ppbv
CL45756	$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.47	0.2	0.2	0.2	ug/m3

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

CHAIN OF CUSTODY RECORD
AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.
557 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823
860-645-1102
email: greg@phoenixlabs.com

RSK-ENV

P.O. # Page 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: office@rskenvironmental.com
☐ Phone #: 718-438-2200.

Report to:	Sabrina Marti	Project Name: 1665 STILLWELL AVENUE	Data Format: (Circle) Equis Excel Other: PDF
Customer:	RSK Environmental	Invoice to: RSK	Requested Deliverable: RCP ASP CAT B
Address:	132-02 89th Ave Suite 211		MCP NJ Deliverables
13613	Richmond Hill, NY 11418	Sampled by: LANNY SINGH	Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES	
45752	SV-2	488	6.0L	-30	-4	10582	11.4	8:05	4:05	5/31	-30	-4		✓		✓	
45753	SV-1	19631	6.0L	-30	-4	5381	11.2	7:57am	3:55	5/31/22	-30	-6		✓		✓	
45754	SV-3	28561	6.0L	-30	-7	10580	11.2	8:20	4:20		-30	-5		✓		✓	
45755	SV-4	458	6.0L	-30	-8	5705	11.1	8:35	4:35		-30	-6		✓		✓	
45756	OA-1	28595	6.0L	-30	-5	10595	11.3	8:30	4:30		-30	-3	✓			✓	

Relinquished by:	Accepted by:	Date:	Time:
		6/1/22	1223
		6/1	1547

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: _____ Date: _____

State Where Samples Collected: NEW YORK

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

(5) - 6.0L 8 hr , 15ft Tubing, 5 Connectors

Turnaround Time:
- 1 Day ☐
- 2 Day ☐
- 3 Day ☐
- 4 Day ☐
- 5 Day ☑

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C TAC RES SVVC I/C SVVC RES GWV I/C GWV CES	Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial	Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial	Vapor Intrusion	Indoor Air Residential Non-residential	Indoor Air Residential Industrial Sub-slab Residential Industrial

Appendix H – CAMP Logs

RSK Environmental Group

BROOKLYN: 3611 14TH AVE. Suite #551 Brooklyn NY 11218 QUEENS: 132-02 89TH AVE. Suite #222 Richmond Hill NY 11418

COMMUNITY AIR MONITORING PROGRAM (CAMP)

Daily Air Monitoring Log

NYSDEC Site No.:	C224307	**Date:**	5/26/2022.
Project Name:	1665 Stillwell Avenue, Brooklyn, NY		
Project Address:	1665 Stillwell Avenue, Brooklyn, NY		

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	✓	
TEMP.	< 32		32-50		50-70		70-85	✓	>85		
WIND	Speed				Direction				Disturbance	Y	N

BACKGROUND DATA 8 am

UPWIND			DOWNWIND		
PID	0.1	ppm	PID	0.1	ppm
DUST MONITOR	0.01	m¢g/m3	DUST MONITOR	0.01	m¢g/m3

TIME	UPWIND		DOWNWIND	
	PID – ppm	DUST – m¢g/m3	PID – ppm	DUST – m¢g/m3
8:45	0.1	0.01	0.2	0.01
9:30	0.1	0.01	0.3	0.01
10:15	0.2	0.01	0.3	0.01
11:00	0.5	0.01	0.3	0.01
11:30	0.3	0.01	0.3	0.01
12:00	0.2	0.01	0.2	0.001
12:30	0.3	0.01	0.3	0.075
1:00	0.3	0.01	0.2	0.03
1:30	0.5	0.01	0.2	0.01
2:00	0.7	0.02	0.4	0.01
2:30	0.2	0.01	0.2	0.01
3:00	0.2	0.01	0.2	0.01

Prepared By: Donnita.

RSK Environmental Group

BROOKLYN 3611 14TH AVE. Suite #551 Brooklyn NY 11218 QUEENS 132-02 89TH AVE. Suite #222 Richmond Hill, NY 11418

COMMUNITY AIR MONITORING PROGRAM (CAMP)
Daily Air Monitoring Log

NYSDEC Site No.:	C224307	**Date:**	5/27/2022
Project Name:	1665 Stillwell Avenue, Brooklyn, NY		
Project Address:	1665 Stillwell Avenue, Brooklyn, NY		

WEATHER	Snow		Rain		Overcast	✓	Partly Cloudy		Bright Sun		
TEMP.	< 32		32-50		50-70	✓	70-85		>85		
WIND	Speed				Direction				Disturbance	Y	N

BACKGROUND DATA 8:45 am.

UPWIND			DOWNWIND	
PID	0.5	ppm	PID	0.0 ppm
DUST MONITOR	0.2	mcg/m3	DUST MONITOR	0.016 mcg/m3

TIME	UPWIND		DOWNWIND	
	PID – ppm	DUST – mcg/m3	PID – ppm	DUST – mcg/m3
9:30 am	0.2	0.2	0.0	0.017
10:15 am	0.3	0.2	0.0	0.01
10:30	0.3	0.1	0.0	0.01
10:50	0.3	0.01	0.0	0.01
11:15	0.3	0.15	0.0	0.01
11:30	0.4	0.2	0.0	0.01
11:45	0.4	0.1	0.0	0.01
12:15	0.6	0.2	0.0	0.01
12:30	0.5	0.15	0.0	0.01
1:15	0.4	0.12	0.0	0.01
2:00	0.4	0.1	0.0	0.01

Prepared By: Dominita D'mello

RSK Environmental Group

BROOKLYN 3611 14TH AVE. Suite #55 | Brooklyn NY 11218 QUEENS 132-02 89TH AVE. Suite #222 Richmond Hill NY 11418

COMMUNITY AIR MONITORING PROGRAM (CAMP)

Daily Air Monitoring Log

NYSDEC Site No.:	C224307	**Date:**	5/31/2022.
Project Name:	1665 Stillwell Avenue, Brooklyn, NY		
Project Address:	1665 Stillwell Avenue, Brooklyn, NY		

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	✓	
TEMP.	< 32		32-50		50-70		70-85	✓	>85		
WIND	Speed				Direction				Disturbance	Y	N

BACKGROUND DATA 7:45 am.

UPWIND			DOWNWIND		
PID	0.0	ppm	PID	0.0	ppm
DUST MONITOR	0.034	mcg/m3	DUST MONITOR	0.033	mcg/m3

TIME	UPWIND		DOWNWIND	
	PID – ppm	DUST – mcg/m3	PID – ppm	DUST – mcg/m3
8am	0.0	0.034	0.0	0.033
9:30	0.1	0.031	0.2	0.028
9:15	0.2	0.03	0.4	0.02
10:00	0.2	0.03	0.4	0.02
10:45	0.2	0.03	0.3	0.03
11:30	0.2	0.035	0.3	0.03
12:30	0.2	0.035	0.3	0.033
1:30	0.2	0.03	0.1	0.033
2:30	0.2	0.03	0.1	0.03
3:30	0.2	0.03	0.1	0.03
4:30	0.2	0.03	0.1	0.03
5:00	0.2	0.03	0.1	0.03

Prepared By: DD

Appendix I – Equipment Calibration Certificates

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 45242
Description Horiba U-52
Calibrated 5/20/2022 5:07:25PM

Manufacturer Horiba
Model Number U-52
Serial Number/ Lot Number HWEUS9DR
Location New Jersey
Department

State Certified
Status Pass
Temp °C 24.0
Humidity % 51

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
4.00 / 4.00	PH	4.00	PH	3.85	4.00	0.00%	Pass
7.00 / 7.00	PH	7.00	PH	6.68	7.00	0.00%	Pass

Group # 2
Group Name Turbidity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.00 / 0.00	NTU	0.00	NTU	0.03	0.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	791.00	800.00	0.00%	Pass

Group # 3
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.718 / 0.718	ms/cm	0.718	ms/cm	0.693	0.718	0.00%	Pass
5.000 / 5.000	ms/cm	5.000	ms/cm	4.480	5.000	0.00%	Pass
80.000 / 80.000	ms/cm	80.000	ms/cm	78.800	80.000	0.00%	Pass

Group # 4
Group Name ORP (Redox)
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	237.00	240.00	0.00%	Pass

Group # 5
Group Name Disolved Oxygen Zero
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 45242
Description Horiba U-52
Calibrated 5/20/2022 5:07:25PM

Group # 5 — **Range Acc %** 0.0000
Group Name Disolved Oxygen Zero — **Reading Acc %** 3.0000
Stated Accy Pct of Reading — **Plus/Minus** 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.00 / 0.00	mg/L	0.00	mg/L	1.80	0.00	0.00%	Pass

Group # 6 — **Range Acc %** 0.0000
Group Name Temperature DO Span — **Reading Acc %** 0.0000
Stated Accy Plus / Minus — **Plus/Minus** 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
20.00 / 24.10	degrees C	9.08	mg/L	8.96	9.08	0.00%	Pass

Test Instruments Used During the Calibration (As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
NJ 800NTU 21010090	Turbidity 800 NTU	Horiba	800 NTU	21010090	1/20/2022	1/20/2023
NJ AUTO CAL LOT: 22010218	Auto Cal Solution: 4.01 PH / 0.0 NTU / 4.49 mS/cm	GFS	8483	22010218	3/8/2022	2/28/2023
NJ CON 80K: 1GI456	Conductivity 80K uS/cm	AquaPhoenix Scientific	CS9980	1GI456	10/1/2021	9/30/2022
NJ COND 5000: 1GJ481	Conductivity 5000 uS/cm	AquaPhoenix Scientific	CS5000	1GJ481	4/12/2022	10/31/2022
NJ COND 718: 1GL1135	Conductivity 718 uS/cm	AquaPhoenix Scientific	CS0718	1GL1135	4/12/2022	12/31/2022
NJ DO 0.0 MG/L: 2021110514	HORIBA SODIUM SULFITE	EMD MILLIPORE	SX0785	2021110514	4/25/2202	7/25/2022
NJ ORP 240MV: 2GB110	ORP solution 240mv	AquaPhoenix Scientific	ORP 240mv	2GB110	3/21/2022	11/30/2022
NJ PH 4: 2GC574	BUFFER, PH4 RED	AquaPhoenix Scientific	BU5004	2GC574	4/12/2022	3/31/2024
NJ PH7: 2GA918	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	BU5007	2GA918	3/19/2022	1/31/2024

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 45242
Description Horiba U-52
Calibrated 5/20/2022 5:07:25PM

Sensor Information

Sensor Type	Manufacturer	Serial Number	Date Installed

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Kyle Lightner

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

Appendix J – Data Usability Summary Reports

DATA USABILITY SUMMARY REPORT (DUSR)
VOLATILE ORGANIC COMPOUNDS
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL40162
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 09/19/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2')	GCL40162	05/26/2022	VOC	Soil
SB-1 (6-8')	GCL40163	05/26/2022	VOC	Soil
SB-1 (14-16')	GCL40164	05/26/2022	VOC	Soil
SB-2 (0-2')	GCL40165	05/26/2022	VOC	Soil
SB-2 (6-8')	GCL40166	05/26/2022	VOC	Soil
SB-2 (14-16')	GCL40167	05/26/2022	VOC	Soil
SB-3 (0-2')	GCL40168	05/26/2022	VOC	Soil
SB-3 (6-8')	GCL40169	05/26/2022	VOC	Soil
SB-3 (14-16')	GCL40170	05/26/2022	VOC	Soil
SB-4 (0-2')	GCL40171	05/26/2022	VOC	Soil
SB-4 (6-8')	GCL40172	05/26/2022	VOC	Soil
SB-4 (14-16')	GCL40173	05/26/2022	VOC	Soil
SB-5 (0-2')	GCL40174	05/26/2022	VOC	Soil
SB-5 (6-8')	GCL40175	05/26/2022	VOC	Soil
SB-5 (14-16')	GCL40176	05/26/2022	VOC	Soil
SB-6 (0-2')	GCL40177	05/26/2022	VOC	Soil
SB-6 (6-8')	GCL40178	05/26/2022	VOC	Soil
SB-6 (14-16')	GCL40179	05/26/2022	VOC	Soil
SB-7 (0-2')	GCL40180	05/26/2022	VOC	Soil
SB-7 (6-8')	GCL40181	05/26/2022	VOC	Soil
SB-7 (14-16')	GCL40182	05/26/2022	VOC	Soil
SB-8 (0-2')	GCL40183	05/26/2022	VOC	Soil
SB-8 (6-8')	GCL40184	05/26/2022	VOC	Soil
SB-8 (14-16')	GCL40185	05/26/2022	VOC	Soil
SB-9 (0-2')	GCL40186	05/26/2022	VOC	Soil
SB-9 (6-8')	GCL40187	05/26/2022	VOC	Soil
SB-9 (14-16')	GCL40188	05/26/2022	VOC	Soil
SB-10 (0-2')	GCL40189	05/26/2022	VOC	Soil
SB-10 (6-8')	GCL40190	05/26/2022	VOC	Soil
SB-10 (14-16')	GCL40191	05/26/2022	VOC	Soil
FD-1	GCL40192	05/26/2022	VOC	Soil
FD-2	GCL40193	05/26/2022	VOC	Soil

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
TB-1 LL	GCL40195	05/26/2022	VOC	Trip Blank
FB-1	GCL40196	05/26/2022	VOC	Field Blank
Equipment Blank	GCL40197	05/26/2022	VOC	Equipment Blank
TB-1 HL	GCL40199	05/26/2022	VOC	Trip Blank

Summary - Data validation was performed on the data for thirty-two (32) soil samples, two (2) trip blanks, one (1) equipment blank, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for Volatile Organic (VOC) analyses by SW846 Method 8260C. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 05/27/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times –All samples were analyzed within the 14-day holding time required for soil samples.

Qualification: None required.

GC/MS Tuning - All BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Qualification: None required.

Surrogates – All surrogate percent recoveries were within the control limits.

Qualification: None required.

Internal Standard (IS) Area Performance – Samples exhibited acceptable area counts for all internal standards.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL40162 LCS-H was analyzed on 05/31/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL40162 LCS was analyzed on 05/31/2022. All %RECs/RPDs were within the laboratory control limits except acetone (64% and 68% %R).

Qualification: Non-detect results for acetone in samples SB-1 (0-2'), SB-3 (6-8'), SB-5 (14-16'), SB-9 (14-16'), SB-10 (0-2'), FD-1, and FD-2 were qualified as estimated (UJ). Result for acetone in sample SB-10 (14-16') was qualified as estimated (J).

– LCS/LCSD associated with ID: CL40164 LCS was analyzed on 05/29/2022. All %RECs/RPDs were within the laboratory control limits except for 2,2-dichloropropane (135 % %R). Results for 2,2-dichloropropane were non-detect in the associated samples.

Qualification: None required.

– LCS/LCSD associated with ID: CL40185 LCS-H was analyzed on 05/31/2022. All %RECs/RPDs were within the laboratory control limits except for trichlorofluoromethane (66 % and 63% %R).

Qualification: Non-detect result for trichlorofluoromethane in sample TB-1 HL 50x was qualified as estimated (UJ).

– LCS/LCSD associated with ID: CL40185 LCS was analyzed on 05/31/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL45344 LCS-H was analyzed on 06/01/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL45344 LCS was analyzed on 06/01/2022. All %RECs/RPDs were within the laboratory control limits except dichlorodifluoromethane (65% and 64% %R), acetone (66% and 63% %R), and methylene chloride (69% %R).

Qualification: Non-results for dichlorodifluoromethane, acetone, and methylene chloride in samples SB-6 (14-16') and SB-10 (6-8') were qualified as estimated (UJ).

– LCS/LCSD associated with ID: CL40047 LCS was analyzed on 05/28/2022. All %RECs/RPDs were within the laboratory control limits except dichlorodifluoromethane (66% and 66% %R).

Qualification: Non-detect results for dichlorodifluoromethane in samples FB-1 and Equipment Blank were qualified as estimated (UJ).

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (0-2') (CL40162). %REC/RPD were inside the laboratory control limits except for 1,4-dichlorobenzene (69% %R), 1,2,4-trichlorobenzene (60% %R and 31.0% RPD), naphthalene (67% %R and 33.5% RPD), and 1,2,3-trichlorobenzene (60% %R and 34.5% RPD).

Qualification: Results for 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, and 1,2,3-trichlorobenzene in sample SB-1 (0-2') were qualified as estimated (UJ).

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (0-2') (CL40162-H). %REC/RPD were inside the laboratory control limits.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (14-16') (CL40164). %REC/RPD were inside the laboratory control limits.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-8 (14-16')-H (CL40185). %REC/RPD were inside the laboratory control limits except for chloroethane (67% %R) and trichlorofluoromethane (55% and 62% %R). Results for SB-8 (14-16') were not reported from the high run.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-8 (14-16') (CL40185). %REC/RPD were inside the laboratory control limits except for 1,3-dichlorobenzene (66% %R), 1,4-dichlorobenzene (66% %R), 2-isopropyltoluene (68% %R), n-butylbenzene (64% %R), 1,2-dichlorobenzene (62% %R), hexachlorobutadiene (40% and 48% %R), 1,2,4-trichlorobenzene (44% and 61% %R and 32.4% RPD), naphthalene (55% %R), and 1,2,3-trichlorobenzene (42% and 60% %R and 35.3% RPD).

Qualification: Results for 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2-isopropyltoluene, n-butylbenzene, 1,2-dichlorobenzene, hexachlorobutadiene, 1,2,4-trichlorobenzene, naphthalene, 1,2,3-trichlorobenzene in sample SB-8 (14-16') were qualified as estimated (UJ).

Method Blank – The method blank-H (CL40162) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL40162) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL40164) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank-H (CL40185 50x) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL40185) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank-H (CL45344) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL45344) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL40047) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

Trip Blanks (TB), Field Blanks (FB), and Equipment Blanks (EB) – Equipment Blank (GCL40197) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Field Blank (FB-1 [GCL40196]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Trip Blank (TB-1 LL [GCL40195]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Trip Blank (TB-1 HL [GCL40199]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

Field Duplicate (FD) – Two soil duplicate pairs were submitted with this SDG. Sample FD-1 (Lab Sample ID: GCL40192) was the field duplicate sample of SB-6 (14-16') (Lab Sample ID: GCL40179). Sample results were non-detect in the field duplicate sample pair.

Qualification: None required.

– Sample FD-2 (Lab Sample ID: GCL40193) was the field duplicate sample of SB-2 (14-16') (Lab Sample ID: GCL40167). Sample results were non-detect in the field duplicate sample pair.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – Analyte

non-detections were reported as "U"; these results should be considered the equivalent of "PQL U." Analyte detections below the PQL were reported as J qualified results. These J qualifiers were retained unless superseded by a more severe qualifier.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary –VOC results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– Volatile soil data package meets the requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-1 (0-2')	GCL40162	Acetone	21	U	21	UJ
SB-1 (0-2')	GCL40162	1,4-Dichlorobenzene	4.3	U	4.3	UJ
SB-1 (0-2')	GCL40162	1,2,4-Trichlorobenzene	4.3	U	4.3	UJ
SB-1 (0-2')	GCL40162	Naphthalene	4.3	U	4.3	UJ
SB-1 (0-2')	GCL40162	1,2,3-Trichlorobenzene	4.3	U	4.3	UJ
SB-1 (6-8')	GCL40163	VOCs	No qualification needed.			
SB-1 (14-16')	GCL40164	VOCs	No qualification needed.			
SB-2 (0-2')	GCL40165	VOCs	No qualification needed.			
SB-2 (6-8')	GCL40166	VOCs	No qualification needed.			
SB-2 (14-16')	GCL40167	VOCs	No qualification needed.			
SB-3 (0-2')	GCL40168	VOCs	No qualification needed.			
SB-3 (6-8')	GCL40169	Acetone	27	U	27	UJ
SB-3 (14-16')	GCL40170	VOCs	No qualification needed.			
SB-4 (0-2')	GCL40171	VOCs	No qualification needed.			
SB-4 (6-8')	GCL40172	VOCs	No qualification needed.			
SB-4 (14-16')	GCL40173	VOCs	No qualification needed.			
SB-5 (0-2')	GCL40174	VOCs	No qualification needed.			
SB-5 (6-8')	GCL40175	VOCs	No qualification needed.			
SB-5 (14-16')	GCL40176	Acetone	21	U	21	UJ
SB-6 (0-2')	GCL40177	VOCs	No qualification needed.			
SB-6 (6-8')	GCL40178	VOCs	No qualification needed.			
SB-6 (14-16')	GCL40179	Dichlorodifluoromethane	4.9	U	4.9	UJ
SB-6 (14-16')	GCL40179	Acetone	24	U	24	UJ
SB-6 (14-16')	GCL40179	Methylene Chloride	4.9	U	4.9	UJ
SB-7 (0-2')	GCL40180	VOCs	No qualification needed.			
SB-7 (6-8')	GCL40181	VOCs	No qualification needed.			
SB-7 (14-16')	GCL40182	VOCs	No qualification needed.			
SB-8 (0-2')	GCL40183	VOCs	No qualification needed.			
SB-8 (6-8')	GCL40184	VOCs	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-8 (14-16')	GCL40185	1,3-Dichlorobenzene	5	U	5	UJ
SB-8 (14-16')	GCL40185	1,4-Dichlorobenzene	5	U	5	UJ
SB-8 (14-16')	GCL40185	2-Isopropyltoluene	5	U	5	UJ
SB-8 (14-16')	GCL40185	n-Butylbenzene	5	U	5	UJ
SB-8 (14-16')	GCL40185	1,2-Dichlorobenzene	5	U	5	UJ
SB-8 (14-16')	GCL40185	Hexachlorobutadiene	5	U	5	UJ
SB-8 (14-16')	GCL40185	1,2,4-Trichlorobenzene	5	U	5	UJ
SB-8 (14-16')	GCL40185	Naphthalene	5	U	5	UJ
SB-8 (14-16')	GCL40185	1,2,3-Trichlorobenzene	5	U	5	UJ
SB-9 (0-2')	GCL40186	VOCs	No qualification needed.			
SB-9 (6-8')	GCL40187	VOCs	No qualification needed.			
SB-9 (14-16')	GCL40188	Acetone	38	U	38	UJ
SB-10 (0-2')	GCL40189	Acetone	24	U	24	UJ
SB-10 (6-8')	GCL40190	Dichlorodifluoromethane	4.6	U	4.6	UJ
SB-10 (6-8')	GCL40190	Acetone	23	U	23	UJ
SB-10 (6-8')	GCL40190	Methylene Chloride	4.6	U	4.6	UJ
SB-10 (14-16')	GCL40191	Acetone	8.8	J	8.8	UJ
FD-1	GCL40192	Acetone	23	U	23	UJ
FD-2	GCL40193	Acetone	26	U	26	UJ
TB-1 LL	GCL40195	VOCs	No qualification needed.			
FB-1	GCL40196	Dichlorodifluoromethane	1.0	U	1.0	UJ
Equipment Blank	GCL40197	Dichlorodifluoromethane	1.0	U	1.0	UJ
TB-1 HL	GCL40199	Trichlorofluoromethane	250	U	250	UJ

DATA USABILITY SUMMARY REPORT (DUSR)
SEMI-VOLATILE ORGANIC COMPOUNDS (including 1,4-Dioxane)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL40162
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 09/19/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2')	GCL40162	05/26/2022	SVOC	Soil
SB-1 (6-8')	GCL40163	05/26/2022	SVOC	Soil
SB-1 (14-16')	GCL40164	05/26/2022	SVOC	Soil
SB-2 (0-2')	GCL40165	05/26/2022	SVOC	Soil
SB-2 (6-8')	GCL40166	05/26/2022	SVOC	Soil
SB-2 (14-16')	GCL40167	05/26/2022	SVOC	Soil
SB-3 (0-2')	GCL40168	05/26/2022	SVOC	Soil
SB-3 (6-8')	GCL40169	05/26/2022	SVOC	Soil
SB-3 (14-16')	GCL40170	05/26/2022	SVOC	Soil
SB-4 (0-2')	GCL40171	05/26/2022	SVOC	Soil
SB-4 (6-8')	GCL40172	05/26/2022	SVOC	Soil
SB-4 (14-16')	GCL40173	05/26/2022	SVOC	Soil
SB-5 (0-2')	GCL40174	05/26/2022	SVOC	Soil
SB-5 (6-8')	GCL40175	05/26/2022	SVOC	Soil
SB-5 (14-16')	GCL40176	05/26/2022	SVOC	Soil
SB-6 (0-2')	GCL40177	05/26/2022	SVOC	Soil
SB-6 (6-8')	GCL40178	05/26/2022	SVOC	Soil
SB-6 (14-16')	GCL40179	05/26/2022	SVOC	Soil
SB-7 (0-2')	GCL40180	05/26/2022	SVOC	Soil
SB-7 (6-8')	GCL40181	05/26/2022	SVOC	Soil
SB-7 (14-16')	GCL40182	05/26/2022	SVOC	Soil
SB-8 (0-2')	GCL40183	05/26/2022	SVOC	Soil
SB-8 (6-8')	GCL40184	05/26/2022	SVOC	Soil
SB-8 (14-16')	GCL40185	05/26/2022	SVOC	Soil
SB-9 (0-2')	GCL40186	05/26/2022	SVOC	Soil
SB-9 (6-8')	GCL40187	05/26/2022	SVOC	Soil
SB-9 (14-16')	GCL40188	05/26/2022	SVOC	Soil
SB-10 (0-2')	GCL40189	05/26/2022	SVOC	Soil
SB-10 (6-8')	GCL40190	05/26/2022	SVOC	Soil
SB-10 (14-16')	GCL40191	05/26/2022	SVOC	Soil
FD-1	GCL40192	05/26/2022	SVOC	Soil

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
FD-2	GCL40193	05/26/2022	SVOC	Soil
FB-1	GCL40196	05/26/2022	SVOC	Field Blank
Equipment Blank	GCL40197	05/26/2022	SVOC	Equipment Blank

Summary - Data validation was performed on the data for thirty-two (32) soil samples, one (1) equipment blank sample, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for Semi-Volatile Organic (SVOC) analyses by SW846 Method 8270D and Method 8270D-SIM (including 1,4-dioxane). All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 05/27/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times–All samples were extracted within 14 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

Surrogates –Surrogate %R values were within the QC acceptance limits for soils.

Qualification: None required.

–Surrogate %R values were within the QC acceptance limits for waters except for phenol-d5 (11% and <10%) and nitrobenzene-d5 (14% and 14%) in sample FB-1 and nitrobenzene-d5

(15% and 16%) in sample Equipment Blank.

Qualification: Non-detect results for nitrobenzene, hexachlorobutadiene, hexachlorocyclopentadiene, phenol, bis(2-chloroethyl)ether, aniline, 2-chlorophenol, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 2-methylphenol, bis(2-chloroisopropyl)ether, n-nitrosodi-n-propylamine, 3&4-methylphenol, acetophenone, hexachloroethane, Isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, benzoic acid, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, naphthalene, 4-chloroaniline, 4-chloro-3-methylphenol, 2-methylnaphthalene, 1,2,4,5-tetrachlorobenzene, 2,4,6-trichlorophenol, and 2,4,5-trichlorophenol in sample FB-1 and phenol, bis(2-chloroethyl)ether, aniline, 2-chlorophenol, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 2-methylphenol, bis(2-chloroisopropyl)ether, n-nitrosodi-n-propylamine, 3&4-methylphenol, acetophenone, hexachloroethane, Isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, benzoic acid, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, naphthalene, 4-chloroaniline, 4-chloro-3-methylphenol, 2-methylnaphthalene, 1,2,4,5-tetrachlorobenzene, 2,4,6-trichlorophenol, and 2,4,5-trichlorophenol in sample Equipment Blank were qualified as estimated (UJ).

–Surrogate %R values were within the QC acceptance limits for 1,4-dioxane except for nitrobenzene-d5 (<10%), 2-fluorobiphenyl (<10%), and terphenyl-d14 (<10%) in sample SB-3 (6-8').

Qualification: Non-detect result for 1,4-dioxane was qualified as estimated (UJ) in sample SB-3 (6-8').

Internal Standard (IS) Area Performance – Samples exhibited acceptable area count for the internal standards for soil and water samples. Samples exhibited acceptable area count for the internal standards for 1,4-dioxane except for 1,4-dichlorobenzene-d14, acenaphthene-d10, and phenanthrene-d10 in samples SB-1 (6-8') and SB-2 (6-8'). Results for 1,4-dioxane were non-detect in samples SB-1 (6-8') and SB-2 (6-8'); no qualifications were required.

Qualification: None required.

Method Blank (MB) – The method blanks prepared and analyzed with the soil samples were free of contamination.

Qualification: None required.

– The method blanks prepared and analyzed with the field blank samples were free of contamination.

Qualification: None required.

– The method blanks prepared and analyzed with the 1,4-dioxane analysis were free of contamination.

Qualification: None required.

Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB), and Equipment Blank (EB) – The field blank (FB-1 [GCL40196]) associated with these samples was free of contamination.

Qualification: None required.

– The Equipment blank (GCL40197) associated with these samples was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL40164 LCS was analyzed on 05/30/2022. %RECs/RPDs were within the laboratory control limits except for hexachlorocyclopentadiene (3% and 3% %R), 2-nitroaniline (177% and 168% %R), and benzidine acid (28% %R). Result for 2-nitroaniline in the associated samples were non-detect; no qualifications were required.

Qualification: Non-detect results for hexachlorocyclopentadiene and benzidine acid were qualified as estimated (UJ) in samples SB-1 (14-16'), SB-1 (0-2'), SB-1 (6-8'), SB-2 (0-2'), SB-2 (6-8'), SB-2 (14-16'), SB-3 (0-2'), SB-3 (6-8'), SB-3 (14-16'), SB-4 (0-2'), SB-4 (6-8'), SB-4 (14-16'), SB-5 (0-2'), and SB-5 (6-8').

– LCS/LCSD associated with ID: CL40185 LCS was analyzed on 05/27/2022. All %RECs/RPDs were within the laboratory control limits except for n-nitrosodimethylamine (27% %R), pyridine (21% and 22% %R), benzoic acid (11% %R and 136% RPD), 2-nitroaniline (134% and 145% %R), 2,4-dinitrophenol (61.8% RPD), 4,6-dinitro-2-methylphenol (34% RPD), and benzidine (37.7% RPD). Results for 2-nitroaniline, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and benzidine were non-detect in the associated samples; no qualifications were required.

Qualification: Non-detect results for n-nitrosodimethylamine, pyridine, and benzoic acid were qualified as estimated (UJ) in samples SB-8 (14-16'), SB-5 (14-16'), SB-6 (0-2'), SB-6 (6-8'), SB-6 (14-16'), SB-7 (0-2'), SB-7 (6-8'), SB-7 (14-16'), SB-8 (0-2'), SB-8 (6-8'), SB-9 (0-2'), SB-9 (6-8'), SB-9 (14-16'), SB-10 (0-2'), SB-10 (6-8'), SB-10 (14-16'), FD-1, and FD-2.

– LCS/LCSD associated with ID: CL38396 LCS 10x was analyzed on 06/02/2022. All %RECs/RPDs were within the laboratory control limits except for hexachlorocyclopentadiene (29% %R), n-nitrosodimethylamine (21.6% RPD), benzo(a)pyrene (39.1% RPD), indeno(1,2,3-cd)pyrene (22.9% RPD), benzo(g,h,i)perylene (22.2% RPD), pyridine (22% and 22% %R), bis(2-chloroethoxy)methane (23% and 23% %R), benzoic acid (144% %R and 74.3% RPD), carbazole (12% and 27% %R and 76.9% RPD), 2-nitroaniline (62.9% %RPD), N-nitrosodiphenylamine (31.4% %RPD), benzidine (0% %R), benzyl butyl phthalate (23.3% RPD), and 3,3'-dichlorobenzidine (0% %R). Hexachlorocyclopentadine and bis(2-chloroethoxy)methane was previously qualified due to exceedance of surrogate recovery criteria in Sample FB-1. Bis(2-chloroethoxy)methane was previously qualified due to exceedance of surrogate recovery criteria in sample Equipment Blank.

Qualification: Non-detect results for pyridine and carbazole were qualified as estimated (UJ) in sample FB-1. Non-detect results for hexachlorocyclopentadiene, pyridine, and carbazole were qualified as estimated (UJ) in the equipment blank sample. **Benzidine and 3,3'-dichlorobenzidine in FB-1 and Equipment Blank samples were qualified as rejected (R) due to zero recovery of the LCS.**

– LCS/LCSD associated with ID: CL40164 LCS was analyzed on 05/31/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL40185 LCS (1,4-dioxane) was analyzed on 05/27/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

Field Duplicate – Two soil duplicate pairs were submitted with this SDG. Sample FD-1 (Lab Sample ID: GCL40192) was the field duplicate sample of SB-6 (14-16') (Lab Sample ID: GCL40179). SVOC (including 1,4-dioxane) results were non-detect in the field duplicate pair.

Qualification: None required.

– Sample FD-2 (Lab Sample ID: GCL40193) was the field duplicate sample of SB-2 (14-16') (Lab Sample ID: GCL40167). SVOC (including 1,4-dioxane) results were non-detect in the field duplicate pair.

Qualification: None required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (14-16') (CL40164). %REC/RPD were within the laboratory control limits except for 2-nitroaniline (179% and 182% %R) and benzidine (19% and 17% %R). Result for 2-nitroaniline was non-detect in the parent sample. The result for benzidine was previously qualified due to low LCS recovery.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (14-16') (CL40164). %REC/RPD were within the laboratory control limits for 1,4-dioxane.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-8 (14-16') (Cl40185). %REC/RPD were within the laboratory control limits except for n-nitrosodimethylamine (26% %R and 32.3% RPD), pyridine (16% and 25% %R and 43.9% RPD), phenol (40% RPD), aniline (41.8% RPD), 2-chlorophenol (41.9% RPD), 1,3-dichlorobenzene (44% RPD), 1,4-dichlorobenzene (40% RPD), 1,2-dichlorobenzene (46.4% RPD), 2-methylphenol (32.4% RPD), bis(2-chloroisopropyl)ether (41.6% RPD), n-nitrosodi-n-propylamine (38.3% RPD), acetophenone (35.1% RPD), hexachloroethane (49.6% RPD), nitrobenzene (38.4% RPD), 2-nitrophenol (39% RPD), 1,2,4-trichlorobenzene (32.6% RPD), 2-nitroaniline (143% %R), and benzidine (28% and 27% %R). Results for phenol, aniline, 2-chlorophenol, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 2-methylphenol, bis(2-chloroisopropyl)ether, n-nitrosodi-n-propylamine, acetophenone, hexachloroethane, nitrobenzene, 2-nitrophenol, 1,2,4-trichlorobenzene, and 2-nitroaniline were non-detect in the parent sample; no qualifications were required. Results for n-nitrosodimethylamine and pyridine were previously qualified due to low LCS recoveries.

Qualification: Non-detect result for benzidine was qualified as estimated (UJ) in sample SB-8 (14-16').

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-8 (14-16') (Cl40185). %REC/RPD were within the laboratory control limits.

Qualification: None required.

Compound Quantitation and Reported Detection Limits –Sample results were reported within the linear calibration range.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary – The SVOC results reported in this SDG are acceptable as reported and may be used for their intended purpose except for benzidine and 3,3'-dichlorobenzidine in FB-1 and Equipment Blank samples.
– Semivolatile data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-1 (0-2')	GCL40162	hexachlorocyclopentadiene	280	U	280	UJ
SB-1 (0-2')	GCL40162	benzidine	390	U	390	UJ
SB-1 (6-8')	GCL40163	hexachlorocyclopentadiene	270	U	270	UJ
SB-1 (6-8')	GCL40163	benzidine	380	U	380	UJ
SB-1 (14-16')	GCL40164	hexachlorocyclopentadiene	250	U	250	UJ
SB-1 (14-16')	GCL40164	benzidine	360	U	360	UJ
SB-2 (0-2')	GCL40165	hexachlorocyclopentadiene	260	U	260	UJ
SB-2 (0-2')	GCL40165	benzidine	370	U	370	UJ
SB-2 (6-8')	GCL40166	hexachlorocyclopentadiene	250	U	250	UJ
SB-2 (6-8')	GCL40166	benzidine	350	U	350	UJ
SB-2 (14-16')	GCL40167	hexachlorocyclopentadiene	250	U	250	UJ
SB-2 (14-16')	GCL40167	benzidine	350	U	350	UJ
SB-3 (0-2')	GCL40168	hexachlorocyclopentadiene	240	U	240	UJ
SB-3 (0-2')	GCL40168	benzidine	350	U	350	UJ
SB-3 (6-8')	GCL40169	1,4-dioxane	70	U	70	UJ
SB-3 (6-8')	GCL40169	hexachlorocyclopentadiene	250	U	250	UJ
SB-3 (6-8')	GCL40169	benzidine	350	U	350	UJ
SB-3 (14-16')	GCL40170	hexachlorocyclopentadiene	280	U	280	UJ
SB-3 (14-16')	GCL40170	benzidine	390	U	390	UJ
SB-4 (0-2')	GCL40171	hexachlorocyclopentadiene	270	U	270	UJ
SB-4 (0-2')	GCL40171	benzidine	380	U	380	UJ
SB-4 (6-8')	GCL40172	hexachlorocyclopentadiene	250	U	250	UJ

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-4 (6-8')	GCL40172	benzidine	350	U	350	UJ
SB-4 (14-16')	GCL40173	hexachlorocyclopentadiene	250	U	250	UJ
SB-4 (14-16')	GCL40173	benzidine	350	U	350	UJ
SB-5 (0-2')	GCL40174	hexachlorocyclopentadiene	270	U	270	UJ
SB-5 (0-2')	GCL40174	benzidine	380	U	380	UJ
SB-5 (6-8')	GCL40175	hexachlorocyclopentadiene	240	U	240	UJ
SB-5 (6-8')	GCL40175	benzidine	340	U	340	UJ
SB-5 (14-16')	GCL40176	n-nitrosodimethylamine	240	U	240	UJ
SB-5 (14-16')	GCL40176	pyridine	240	U	240	UJ
SB-5 (14-16')	GCL40176	Benzoic acid	1700	U	1700	UJ
SB-6 (0-2')	GCL40177	n-nitrosodimethylamine	270	U	270	UJ
SB-6 (0-2')	GCL40177	pyridine	270	U	270	UJ
SB-6 (0-2')	GCL40177	Benzoic acid	1900	U	1900	UJ
SB-6 (6-8')	GCL40178	n-nitrosodimethylamine	240	U	240	UJ
SB-6 (6-8')	GCL40178	pyridine	240	U	240	UJ
SB-6 (6-8')	GCL40178	Benzoic acid	1700	U	1700	UJ
SB-6 (14-16')	GCL40179	n-nitrosodimethylamine	250	U	250	UJ
SB-6 (14-16')	GCL40179	pyridine	250	U	250	UJ
SB-6 (14-16')	GCL40179	Benzoic acid	1800	U	1800	UJ
SB-7 (0-2')	GCL40180	n-nitrosodimethylamine	270	U	270	UJ
SB-7 (0-2')	GCL40180	pyridine	270	U	270	UJ
SB-7 (0-2')	GCL40180	Benzoic acid	1900	U	1900	UJ
SB-7 (6-8')	GCL40181	n-nitrosodimethylamine	240	U	240	UJ
SB-7 (6-8')	GCL40181	pyridine	240	U	240	UJ
SB-7 (6-8')	GCL40181	Benzoic acid	1700	U	1700	UJ
SB-7 (14-16')	GCL40182	n-nitrosodimethylamine	240	U	240	UJ
SB-7 (14-16')	GCL40182	pyridine	240	U	240	UJ
SB-7 (14-16')	GCL40182	Benzoic acid	1700	U	1700	UJ
SB-8 (0-2')	GCL40183	n-nitrosodimethylamine	260	U	260	UJ
SB-8 (0-2')	GCL40183	pyridine	260	U	260	UJ
SB-8 (0-2')	GCL40183	Benzoic acid	1800	U	1800	UJ
SB-8 (6-8')	GCL40184	n-nitrosodimethylamine	240	U	240	UJ
SB-8 (6-8')	GCL40184	pyridine	240	U	240	UJ
SB-8 (6-8')	GCL40184	Benzoic acid	1700	U	1700	UJ
SB-8 (14-16')	GCL40185	n-nitrosodimethylamine	250	U	250	UJ
SB-8 (14-16')	GCL40185	pyridine	250	U	250	UJ
SB-8 (14-16')	GCL40185	Benzoic acid	1800	U	1800	UJ
SB-8 (14-16')	GCL40185	benzidine	350	U	350	UJ
SB-9 (0-2')	GCL40186	n-nitrosodimethylamine	270	U	270	UJ
SB-9 (0-2')	GCL40186	pyridine	270	U	270	UJ
SB-9 (0-2')	GCL40186	Benzoic acid	2000	U	2000	UJ
SB-9 (6-8')	GCL40187	n-nitrosodimethylamine	250	U	250	UJ

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-9 (6-8')	GCL40187	pyridine	250	U	250	UJ
SB-9 (6-8')	GCL40187	Benzoic acid	1800	U	1800	UJ
SB-9 (14-16')	GCL40188	n-nitrosodimethylamine	240	U	240	UJ
SB-9 (14-16')	GCL40188	pyridine	240	U	240	UJ
SB-9 (14-16')	GCL40188	Benzoic acid	1700	U	1700	UJ
SB-10 (0-2')	GCL40189	n-nitrosodimethylamine	270	U	270	UJ
SB-10 (0-2')	GCL40189	pyridine	270	U	270	UJ
SB-10 (0-2')	GCL40189	Benzoic acid	1900	U	1900	UJ
SB-10 (6-8')	GCL40190	n-nitrosodimethylamine	240	U	240	UJ
SB-10 (6-8')	GCL40190	pyridine	240	U	240	UJ
SB-10 (6-8')	GCL40190	Benzoic acid	1700	U	1700	UJ
SB-10 (14-16')	GCL40191	n-nitrosodimethylamine	240	U	240	UJ
SB-10 (14-16')	GCL40191	pyridine	240	U	240	UJ
SB-10 (14-16')	GCL40191	Benzoic acid	1700	U	1700	UJ
FD-1	GCL40192	n-nitrosodimethylamine	250	U	250	UJ
FD-1	GCL40192	pyridine	250	U	250	UJ
FD-1	GCL40192	Benzoic acid	1800	U	1800	UJ
FD-2	GCL40193	n-nitrosodimethylamine	240	U	240	UJ
FD-2	GCL40193	pyridine	240	U	240	UJ
FD-2	GCL40193	Benzoic acid	1700	U	1700	UJ
FB-1	GCL40196	Nitrobenzene	0.39	U	0.39	UJ
FB-1	GCL40196	Hexachlorobutadiene	0.49	U	0.49	UJ
FB-1	GCL40196	Hexachlorocyclopentadiene	0.49	U	0.49	UJ
FB-1	GCL40196	phenol	0.97	U	0.97	UJ
FB-1	GCL40196	Bis(2-chloroethyl)ether	0.97	U	0.97	UJ
FB-1	GCL40196	Aniline	3.4	U	3.4	UJ
FB-1	GCL40196	2-chlorophenol	0.97	U	0.97	UJ
FB-1	GCL40196	1,3-dichlorobenzene	0.97	U	0.97	UJ
FB-1	GCL40196	1,4-dichlorobenzene	0.97	U	0.97	UJ
FB-1	GCL40196	1,2-dichlorobenzene	0.97	U	0.97	UJ
FB-1	GCL40196	2-methylphenol	0.97	U	0.97	UJ
FB-1	GCL40196	Bis(2-chloroisopropyl)ether	4.9	U	4.9	UJ
FB-1	GCL40196	n-nitrosodi-n-propylamine	4.9	U	4.9	UJ
FB-1	GCL40196	3&4-methylphenol	0.97	U	0.97	UJ
FB-1	GCL40196	Acetophenone	4.9	U	4.9	UJ
FB-1	GCL40196	Hexachloroethane	0.97	U	0.97	UJ
FB-1	GCL40196	Isophorone	4.9	U	4.9	UJ
FB-1	GCL40196	2-nitrophenol	0.97	U	0.97	UJ
FB-1	GCL40196	2,4-dimethylphenol	0.97	U	0.97	UJ
FB-1	GCL40196	Bis(2-chloroethoxy)methane	4.9	U	4.9	UJ
FB-1	GCL40196	Benzoic acid	24	U	24	UJ
FB-1	GCL40196	2,4-dichlorophenol	0.97	U	0.97	UJ

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
FB-1	GCL40196	1,2,4-trichlorobenzene	4.9	U	4.9	UJ
FB-1	GCL40196	Naphthalene	4.9	U	4.9	UJ
FB-1	GCL40196	4-chloroaniline	3.4	U	3.4	UJ
FB-1	GCL40196	4-chloro-3-methylphenol	0.97	U	0.97	UJ
FB-1	GCL40196	2-methylnaphthalene	4.9	U	4.9	UJ
FB-1	GCL40196	1,2,4,5-tetrachlorobenzene	3.4	U	3.4	UJ
FB-1	GCL40196	2,4,6-trichlorophenol	0.97	U	0.97	UJ
FB-1	GCL40196	2,4,5-trichlorophenol	0.97	U	0.97	UJ
FB-1	GCL40196	pyridine	9.7	U	9.7	UJ
FB-1	GCL40196	carbazole	9.4	U	9.4	UJ
FB-1	GCL40196	Benzidine	4.4	U	4.4	R
FB-1	GCL40196	3,3'-dichlorobenzidine	4.9	U	4.9	R
Equipment Blank	GCL40197	phenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	Bis(2-chloroethyl)ether	0.98	U	0.98	UJ
Equipment Blank	GCL40197	Aniline	3.4	U	3.4	UJ
Equipment Blank	GCL40197	2-chlorophenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	1,3-dichlorobenzene	0.98	U	0.98	UJ
Equipment Blank	GCL40197	1,4-dichlorobenzene	0.98	U	0.98	UJ
Equipment Blank	GCL40197	1,2-dichlorobenzene	0.98	U	0.98	UJ
Equipment Blank	GCL40197	2-methylphenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	Bis(2-chloroisopropyl)ether	4.9	U	4.9	UJ
Equipment Blank	GCL40197	n-nitrosodi-n-propylamine	4.9	U	4.9	UJ
Equipment Blank	GCL40197	3&4-methylphenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	Acetophenone	4.9	U	4.9	UJ
Equipment Blank	GCL40197	Hexachloroethane	0.98	U	0.98	UJ
Equipment Blank	GCL40197	Isophorone	4.9	U	4.9	UJ
Equipment Blank	GCL40197	2-nitrophenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	2,4-dimethylphenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	Bis(2-chloroethoxy)methane	4.9	U	4.9	UJ
Equipment Blank	GCL40197	Benzoic acid	25	U	25	UJ
Equipment Blank	GCL40197	2,4-dichlorophenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	1,2,4-trichlorobenzene	4.9	U	4.9	UJ
Equipment Blank	GCL40197	Naphthalene	4.9	U	4.9	UJ
Equipment Blank	GCL40197	4-chloroaniline	3.4	U	3.4	UJ
Equipment Blank	GCL40197	4-chloro-3-methylphenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	2-methylnaphthalene	4.9	U	4.9	UJ
Equipment Blank	GCL40197	1,2,4,5-tetrachlorobenzene	3.4	U	3.4	UJ
Equipment Blank	GCL40197	2,4,6-trichlorophenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	2,4,5-trichlorophenol	0.98	U	0.98	UJ
Equipment Blank	GCL40197	hexachlorocyclopentadiene	0.49	U	0.49	UJ
Equipment Blank	GCL40197	pyridine	9.8	U	9.8	UJ
Equipment Blank	GCL40197	carbazole	4.9	U	4.9	UJ

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
Equipment Blank	GCL40197	Benzidine	4.4	U	4.4	R
Equipment Blank	GCL40197	3,3'-dichlorobenzidine	4.9	U	4.9	R

DATA USABILITY SUMMARY REPORT (DUSR)
PESTICIDES
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL40162
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 09/01/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2')	GCL40162	05/26/2022	Pesticides	Soil
SB-1 (6-8')	GCL40163	05/26/2022	Pesticides	Soil
SB-1 (14-16')	GCL40164	05/26/2022	Pesticides	Soil
SB-2 (0-2')	GCL40165	05/26/2022	Pesticides	Soil
SB-2 (6-8')	GCL40166	05/26/2022	Pesticides	Soil
SB-2 (14-16')	GCL40167	05/26/2022	Pesticides	Soil
SB-3 (0-2')	GCL40168	05/26/2022	Pesticides	Soil
SB-3 (6-8')	GCL40169	05/26/2022	Pesticides	Soil
SB-3 (14-16')	GCL40170	05/26/2022	Pesticides	Soil
SB-4 (0-2')	GCL40171	05/26/2022	Pesticides	Soil
SB-4 (6-8')	GCL40172	05/26/2022	Pesticides	Soil
SB-4 (14-16')	GCL40173	05/26/2022	Pesticides	Soil
SB-5 (0-2')	GCL40174	05/26/2022	Pesticides	Soil
SB-5 (6-8')	GCL40175	05/26/2022	Pesticides	Soil
SB-5 (14-16')	GCL40176	05/26/2022	Pesticides	Soil
SB-6 (0-2')	GCL40177	05/26/2022	Pesticides	Soil
SB-6 (6-8')	GCL40178	05/26/2022	Pesticides	Soil
SB-6 (14-16')	GCL40179	05/26/2022	Pesticides	Soil
SB-7 (0-2')	GCL40180	05/26/2022	Pesticides	Soil
SB-7 (6-8')	GCL40181	05/26/2022	Pesticides	Soil
SB-7 (14-16')	GCL40182	05/26/2022	Pesticides	Soil
SB-8 (0-2')	GCL40183	05/26/2022	Pesticides	Soil
SB-8 (6-8')	GCL40184	05/26/2022	Pesticides	Soil
SB-8 (14-16')	GCL40185	05/26/2022	Pesticides	Soil
SB-9 (0-2')	GCL40186	05/26/2022	Pesticides	Soil
SB-9 (6-8')	GCL40187	05/26/2022	Pesticides	Soil
SB-9 (14-16')	GCL40188	05/26/2022	Pesticides	Soil
SB-10 (0-2')	GCL40189	05/26/2022	Pesticides	Soil
SB-10 (6-8')	GCL40190	05/26/2022	Pesticides	Soil
SB-10 (14-16')	GCL40191	05/26/2022	Pesticides	Soil
FD-1	GCL40192	05/26/2022	Pesticides	Soil

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
FD-2	GCL40193	05/26/2022	Pesticides	Soil
FB-1	GCL40196	05/26/2022	Pesticides	Field Blank
Equipment Blank	GCL40197	05/26/2022	Pesticides	Equipment Blank

Summary - Data validation was performed on the data for thirty-two (32) soil samples, one (1) equipment blank, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for Pesticides by SW-846 Method 8081B in accordance with NYSDEC, Analytical Services Protocol (ASP) Format. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition– All samples arrived at the laboratory on 05/27/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All samples were extracted within 14 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

GC/ECD Instrument Performance Check – 4,4'-DDT and Endrin breakdown exhibited acceptable results.

Qualification: None required.

Surrogates – All surrogates %RECs values for all soil samples were within the laboratory control limits except for decachlorobiphenyl (on column 1) in sample SB-4 (0-2') (28%). Results reported from column 1 for sample SB-4 (0-2') were not reported; reported results came from column 2.

Qualification: None required.

Internal Standard (IS) Area Performance – Samples exhibited acceptable area count for the internal standards.

Qualification: None required.

Method Blank (MB), Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB) – Method Blank (CL40005 BL) associated with the soil samples extracted on 05/27/2022 and analyzed on 05/31/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL40164 BL) associated with the soil samples extracted on 05/31/2022 and analyzed on 06/01/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL40185 BL) associated with the soil samples extracted on 05/31/2022 and analyzed on 06/01/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL46762 BL) associated with the soil samples extracted on 06/02/2022 and analyzed on 06/03/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL40196 BL) associated with the soil samples extracted on 06/01/2022 and analyzed on 06/02/2022 was free of contamination.

Qualification: None required.

– Equipment Blank (GCL40197) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Field Blank (FB-1 [GCL40196]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL40005 LCS was analyzed on 05/31/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL40164 LCS was analyzed on 06/01/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL40185 LCS was analyzed on 06/01/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL46762 LCS was analyzed on 06/03/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL40196 LCS was analyzed on 06/02/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

Field Duplicate (FD) – Two soil duplicate pairs were submitted with this SDG. Sample FD-1 (Lab Sample ID: GCL40192) was the field duplicate sample of SB-6 (14-16') (Lab Sample ID: GCL40179). The results for pesticides in the FD sample pair were non-detect.

Qualification: None required.

– Sample FD-2 (Lab Sample ID: GCL40193) was the field duplicate sample of SB-2 (14-16') (Lab Sample ID: GCL40167). The results for pesticides in the FD sample pair were non-detect.

Qualification: None required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (14-16') (GCL40163). %REC/RPD were within the laboratory control limits.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-8 (14-16') (GCL40185). RPDs were within the laboratory control limits. %RECs were within the laboratory control limits.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – All sample results were reported within the linear calibration range.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary – The pesticide results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– Pesticides data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-1 (0-2')	GCL40162	Pesticides	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-1 (6-8')	GCL40163	Pesticides	No qualification needed.			
SB-1 (14-16')	GCL40164	Pesticides	No qualification needed.			
SB-2 (0-2')	GCL40165	Pesticides	No qualification needed.			
SB-2 (6-8')	GCL40166	Pesticides	No qualification needed.			
SB-2 (14-16')	GCL40167	Pesticides	No qualification needed.			
SB-3 (0-2')	GCL40168	Pesticides	No qualification needed.			
SB-3 (6-8')	GCL40169	Pesticides	No qualification needed.			
SB-3 (14-16')	GCL40170	Pesticides	No qualification needed.			
SB-4 (0-2')	GCL40171	Pesticides	No qualification needed.			
SB-4 (6-8')	GCL40172	Pesticides	No qualification needed.			
SB-4 (14-16')	GCL40173	Pesticides	No qualification needed.			
SB-5 (0-2')	GCL40174	Pesticides	No qualification needed.			
SB-5 (6-8')	GCL40175	Pesticides	No qualification needed.			
SB-5 (14-16')	GCL40176	Pesticides	No qualification needed.			
SB-6 (0-2')	GCL40177	Pesticides	No qualification needed.			
SB-6 (6-8')	GCL40178	Pesticides	No qualification needed.			
SB-6 (14-16')	GCL40179	Pesticides	No qualification needed.			
SB-7 (0-2')	GCL40180	Pesticides	No qualification needed.			
SB-7 (6-8')	GCL40181	Pesticides	No qualification needed.			
SB-7 (14-16')	GCL40182	Pesticides	No qualification needed.			
SB-8 (0-2')	GCL40183	Pesticides	No qualification needed.			
SB-8 (6-8')	GCL40184	Pesticides	No qualification needed.			
SB-8 (14-16')	GCL40185	Pesticides	No qualification needed.			
SB-9 (0-2')	GCL40186	Pesticides	No qualification needed.			
SB-9 (6-8')	GCL40187	Pesticides	No qualification needed.			
SB-9 (14-16')	GCL40188	Pesticides	No qualification needed.			
SB-10 (0-2')	GCL40189	Pesticides	No qualification needed.			
SB-10 (6-8')	GCL40190	Pesticides	No qualification needed.			
SB-10 (14-16')	GCL40191	Pesticides	No qualification needed.			
FD-1	GCL40192	Pesticides	No qualification needed.			
FD-2	GCL40193	Pesticides	No qualification needed.			
FB-1	GCL40196	Pesticides	No qualification needed.			
Equipment Blank	GCL40197	Pesticides	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
POLYCHLORINATED BIPHENYLIS (PCBs)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL40162
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 09/01/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2')	GCL40162	05/26/2022	PCB	Soil
SB-1 (6-8')	GCL40163	05/26/2022	PCB	Soil
SB-1 (14-16')	GCL40164	05/26/2022	PCB	Soil
SB-2 (0-2')	GCL40165	05/26/2022	PCB	Soil
SB-2 (6-8')	GCL40166	05/26/2022	PCB	Soil
SB-2 (14-16')	GCL40167	05/26/2022	PCB	Soil
SB-3 (0-2')	GCL40168	05/26/2022	PCB	Soil
SB-3 (6-8')	GCL40169	05/26/2022	PCB	Soil
SB-3 (14-16')	GCL40170	05/26/2022	PCB	Soil
SB-4 (0-2')	GCL40171	05/26/2022	PCB	Soil
SB-4 (6-8')	GCL40172	05/26/2022	PCB	Soil
SB-4 (14-16')	GCL40173	05/26/2022	PCB	Soil
SB-5 (0-2')	GCL40174	05/26/2022	PCB	Soil
SB-5 (6-8')	GCL40175	05/26/2022	PCB	Soil
SB-5 (14-16')	GCL40176	05/26/2022	PCB	Soil
SB-6 (0-2')	GCL40177	05/26/2022	PCB	Soil
SB-6 (6-8')	GCL40178	05/26/2022	PCB	Soil
SB-6 (14-16')	GCL40179	05/26/2022	PCB	Soil
SB-7 (0-2')	GCL40180	05/26/2022	PCB	Soil
SB-7 (6-8')	GCL40181	05/26/2022	PCB	Soil
SB-7 (14-16')	GCL40182	05/26/2022	PCB	Soil
SB-8 (0-2')	GCL40183	05/26/2022	PCB	Soil
SB-8 (6-8')	GCL40184	05/26/2022	PCB	Soil
SB-8 (14-16')	GCL40185	05/26/2022	PCB	Soil
SB-9 (0-2')	GCL40186	05/26/2022	PCB	Soil
SB-9 (6-8')	GCL40187	05/26/2022	PCB	Soil
SB-9 (14-16')	GCL40188	05/26/2022	PCB	Soil
SB-10 (0-2')	GCL40189	05/26/2022	PCB	Soil
SB-10 (6-8')	GCL40190	05/26/2022	PCB	Soil
SB-10 (14-16')	GCL40191	05/26/2022	PCB	Soil
FD-1	GCL40192	05/26/2022	PCB	Soil

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
FD-2	GCL40193	05/26/2022	PCB	Soil
FB-1	GCL40196	05/26/2022	PCB	Field Blank
Equipment Blank	GCL40197	05/26/2022	PCB	Equipment Blank

Summary - Data validation was performed on the data for thirty-two (32) soil samples, one (1) field blank sample, and one (1) equipment blank that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for PCBs by SW-846 Method 8082A in accordance with NYSDEC, Analytical Services Protocol (ASP) Format. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 05/27/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All samples were extracted within 14 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

Surrogates – All surrogates %RECs values for all soil samples were within the laboratory control limits.

Qualification: None required.

Method Blank (MB), Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB) – Method Blank (CL40005 BL) associated with the field blank sample extracted on 05/1272022 and analyzed on 05/31/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL40164 BL) associated with the soil samples extracted on 05/31/2022 and analyzed on 06/01/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL40185 BL) associated with the soil samples extracted on 05/31/2022 and analyzed on 06/01/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL46762 BL) associated with the soil samples extracted on 06/02/2022 and analyzed on 06/03/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL40196 BL) associated with the soil samples extracted on 06/01/2022 and analyzed on 06/02/2022 was free of contamination.

Qualification: None required.

– Trip Blank (TB-1 LL [GCL40195]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Trip Blank (TB-1 HL [GCL40199]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Equipment Blank (GCL40197) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

– Field Blank (FB-1 [GCL40196]) associated with the soil samples collected on 05/26/2022 was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – Laboratory Control Sample associated with ID: CL40005 were analyzed on 05/31/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: GCL40185 were analyzed on 06/01/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: GCL46762 were analyzed on 06/03/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: GCL40196 were analyzed on 06/02/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

Field Duplicate – Two soil duplicate pairs were submitted with this SDG. Sample FD-1 (Lab Sample ID: GCL40192) was the field duplicate sample of SB-6 (14-16') (Lab Sample ID: GCL40179). The results for PCBs in the FD sample pair were non-detect.

Qualification: None required.

– Sample FD-2 (Lab Sample ID: GCL40193) was the field duplicate sample of SB2 (14-16') (Lab Sample ID: GCL40167). The results for PCBs in the FD sample pair were non-detect.

Qualification: None required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-1 (14-16') (GCL40163). %REC/RPD were within the laboratory control limits.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-8 (14-16') (GCL40185). RPDs were within the laboratory control limits. %RECs were within the laboratory control limits.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – All sample results were reported within the linear calibration range.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary – The PCBs results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– PCBs data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-1 (0-2')	GCL40162	PCBs	No qualification needed.			
SB-1 (6-8')	GCL40163	PCBs	No qualification needed.			
SB-1 (14-16')	GCL40164	PCBs	No qualification needed.			
SB-2 (0-2')	GCL40165	PCBs	No qualification needed.			
SB-2 (6-8')	GCL40166	PCBs	No qualification needed.			
SB-2 (14-16')	GCL40167	PCBs	No qualification needed.			
SB-3 (0-2')	GCL40168	PCBs	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-3 (6-8')	GCL40169	PCBs	No qualification needed.			
SB-3 (14-16')	GCL40170	PCBs	No qualification needed.			
SB-4 (0-2')	GCL40171	PCBs	No qualification needed.			
SB-4 (6-8')	GCL40172	PCBs	No qualification needed.			
SB-4 (14-16')	GCL40173	PCBs	No qualification needed.			
SB-5 (0-2')	GCL40174	PCBs	No qualification needed.			
SB-5 (6-8')	GCL40175	PCBs	No qualification needed.			
SB-5 (14-16')	GCL40176	PCBs	No qualification needed.			
SB-6 (0-2')	GCL40177	PCBs	No qualification needed.			
SB-6 (6-8')	GCL40178	PCBs	No qualification needed.			
SB-6 (14-16')	GCL40179	PCBs	No qualification needed.			
SB-7 (0-2')	GCL40180	PCBs	No qualification needed.			
SB-7 (6-8')	GCL40181	PCBs	No qualification needed.			
SB-7 (14-16')	GCL40182	PCBs	No qualification needed.			
SB-8 (0-2')	GCL40183	PCBs	No qualification needed.			
SB-8 (6-8')	GCL40184	PCBs	No qualification needed.			
SB-8 (14-16')	GCL40185	PCBs	No qualification needed.			
SB-9 (0-2')	GCL40186	PCBs	No qualification needed.			
SB-9 (6-8')	GCL40187	PCBs	No qualification needed.			
SB-9 (14-16')	GCL40188	PCBs	No qualification needed.			
SB-10 (0-2')	GCL40189	PCBs	No qualification needed.			
SB-10 (6-8')	GCL40190	PCBs	No qualification needed.			
SB-10 (14-16')	GCL40191	PCBs	No qualification needed.			
FD-1	GCL40192	PCBs	No qualification needed.			
FD-2	GCL40193	PCBs	No qualification needed.			
FB-1	GCL40196	PCBs	No qualification needed.			
Equipment Blank	GCL40197	PCBs	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
TRACE METALS
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL40162
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 09/19/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2')	GCL40162	05/26/2022	Metals	Soil
SB-1 (6-8')	GCL40163	05/26/2022	Metals	Soil
SB-1 (14-16')	GCL40164	05/26/2022	Metals	Soil
SB-2 (0-2')	GCL40165	05/26/2022	Metals	Soil
SB-2 (6-8')	GCL40166	05/26/2022	Metals	Soil
SB-2 (14-16')	GCL40167	05/26/2022	Metals	Soil
SB-3 (0-2')	GCL40168	05/26/2022	Metals	Soil
SB-3 (6-8')	GCL40169	05/26/2022	Metals	Soil
SB-3 (14-16')	GCL40170	05/26/2022	Metals	Soil
SB-4 (0-2')	GCL40171	05/26/2022	Metals	Soil
SB-4 (6-8')	GCL40172	05/26/2022	Metals	Soil
SB-4 (14-16')	GCL40173	05/26/2022	Metals	Soil
SB-5 (0-2')	GCL40174	05/26/2022	Metals	Soil
SB-5 (6-8')	GCL40175	05/26/2022	Metals	Soil
SB-5 (14-16')	GCL40176	05/26/2022	Metals	Soil
SB-6 (0-2')	GCL40177	05/26/2022	Metals	Soil
SB-6 (6-8')	GCL40178	05/26/2022	Metals	Soil
SB-6 (14-16')	GCL40179	05/26/2022	Metals	Soil
SB-7 (0-2')	GCL40180	05/26/2022	Metals	Soil
SB-7 (6-8')	GCL40181	05/26/2022	Metals	Soil
SB-7 (14-16')	GCL40182	05/26/2022	Metals	Soil
SB-8 (0-2')	GCL40183	05/26/2022	Metals	Soil
SB-8 (6-8')	GCL40184	05/26/2022	Metals	Soil
SB-8 (14-16')	GCL40185	05/26/2022	Metals	Soil
SB-9 (0-2')	GCL40186	05/26/2022	Metals	Soil
SB-9 (6-8')	GCL40187	05/26/2022	Metals	Soil
SB-9 (14-16')	GCL40188	05/26/2022	Metals	Soil
SB-10 (0-2')	GCL40189	05/26/2022	Metals	Soil
SB-10 (6-8')	GCL40190	05/26/2022	Metals	Soil
SB-10 (14-16')	GCL40191	05/26/2022	Metals	Soil

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
FD-1	GCL40192	05/26/2022	Metals	Soil
FD-2	GCL40193	05/26/2022	Metals	Soil
FB-1	GCL40196	05/26/2022	Metals	Field Blank
Equipment Blank	GCL40197	05/26/2022	Metals	Equipment Blank

Summary - Data validation was performed on the data for thirty-two (32) soil samples and one (1) field blank sample and one (1) equipment blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for the following analyses:

1.1 Trace Metals-ICP-AES by SW-846 Method 6010D.
1.2 Mercury by SW-846 Method 7471B and 7470A.

All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 05/27/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All soil samples were analyzed within the 6 months holding times for Trace Metals analysis by ICP-AES.

Qualification: None required.

– All soil samples were digested and analyzed within the 28 days holding times for Mercury analysis.

Qualification: None required.

Initial and Continuing Calibration Verification (ICV and CCV) – ICP-AES – All %RECs in the ICV and CCVs were within QC limits for soils and waters.

Qualification: None required.

Mercury – All correlation coefficient for Mercury calibration curve analyzed were ≤0.995.

Qualification: None required.

– All ICVs and CCVs %REC values were within the QC limits for soils and waters.

Qualification: None required.

ICP-AES Interference Check Sample – All %REC values were within the QC limits for ICSA and ICSAB for soils and waters.

Qualification: None required.

Blanks (Method Blank, ICB and CCB) – ICP-AES Method Blank (CL40164 BLK) was free of contamination.

Qualification: None required.

– ICP-AES Method Blank (CL40185 BLK) was free of contamination.

Qualification: None required.

– ICP-AES Method Blank (CL40182 BLK) was free of contamination.

Qualification: None required.

– Furnace Method Blank (CL39590 BLK) was free of contamination.

Qualification: None required.

– Furnace Method Blank (CL39701 BLK) was free of contamination.

Qualification: None required.

– ICB and CCBs for soils were free of contamination.

Qualification: None required.

– Mercury – ICB and CCBs was free of contaminations.

Qualification: None required.

– Method Blank (CL40164 BLK) was free of contamination.

Qualification: None required.

– Method Blank (CL40185 BLK) was free of contamination.

Qualification: None required.

– Method Blank (CL38569 BLK) was free of contamination.

Qualification: None required.

– Method Blank (CL40196 BLK) was free of contamination.

Qualification: None required.

Field Blank (FB) and Equipment Blank (EB) – The field blank (FB-1 [GCL40196]) associated with these samples contained aluminum (0.011 mg/L), calcium (0.088 mg/L), iron (0.02 mg/L), mercury (0.0004 mg/L), and magnesium (0.013 mg/L). Results for aluminum, calcium, iron, and magnesium in the field samples were greater than the method blank contamination; no qualifications were required.

Qualification: Results for mercury in samples SB-1 (0-2'), SB-2 (0-2'), SB-3 (14-16'), SB-5 (0-2'), SB-6 (0-2'), SB-7 (0-2'), SB-8 (0-2'), SB-9 (0-2'), SB-10 (0-2'), and SB-10 (14-16') were qualified as estimated bias high (J+) (based on NFG [National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020]).

– The equipment blank (GCL40197]) associated with these samples contained aluminum (0.011 mg/L), calcium (0.049 mg/L) and vanadium (0.001 mg/L). Results for aluminum, calcium, and vanadium in the field samples were greater than the method blank contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – ICP-AES and Mercury – Laboratory Control Sample %RECs were within the laboratory control limits for soils and waters.

Qualification: None required.

Field Duplicate– Two soil duplicate pairs were submitted with this SDG. Sample FD-1 (Lab Sample ID: GCL40192) was the field duplicate sample of SB-6 (14-16') (Lab Sample ID: GCL40179). The FD sample results for detected metals in the FD sample pair are summarized in the table below. The calculated %RPDs between detected FD sample results were < 100% (see below) with the except for sodium.

Lab Sample ID	GCL40179		GCL40192		
Client Sample ID	SB-6 (14-16')		FD-1		
Collection Date	05/26/2022		05/26/2022		
Analyte	**Result (mg/Kg)**	**Flag**	**Result (mg/Kg)**	**Flag**	**%RPD**

Lab Sample ID	GCL40179		GCL40192		
Client Sample ID	SB-6 (14-16')		FD-1		
Collection Date	05/26/2022		05/26/2022		
Analyte	**Result (mg/Kg)**	**Flag**	**Result (mg/Kg)**	**Flag**	**%RPD**
Aluminum	5290		7010		28.0
Arsenic	2.72		1.52		56.6
Barium	33.8		36.3		7.1
Beryllium	0.53		0.51		3.8
Calcium	2340		1310		56.4
Cadmium	1.05		0.98		6.9
Cobalt	11.6		13.7		16.6
Chromium	19.8		47		81.4
Copper	16.4		17.2		4.8
Iron	14300		16000		11.2
Potassium	932		1900		68.4
Magnesium	4650		5230		11.7
Manganese	330		411		21.9
Sodium	140		431		**101.9**
Nickel	109		125		13.7
Lead	6.9		6.3		9.1
Vanadium	19.6		32.2		48.6
Zinc	43		32.2		28.7

Qualification: Results for sodium were qualified as estimated (J) in the field duplicate pair (SB-6 (14-16') and FD-1).

– Sample FD-2 (Lab Sample ID: GCL40193) was the field duplicate sample of SB-2 (14-16') (Lab Sample ID: GCL40167). The FD sample results for detected metals in the FD sample pair are summarized in the table below. The calculated %RPDs between detected FD sample results were < 100% (see below).

Lab Sample ID	GCL40167		GCL40193		
Client Sample ID	SB-2 (14-16')		FD-2		
Collection Date	05/26/2022		05/26/2022		
Analyte	**Result (mg/Kg)**	**Flag**	**Result (mg/Kg)**	**Flag**	**%RPD**
Aluminum	5280		5580		5.5
Arsenic	1.69		1.73		2.3
Barium	28.1		21.2		28.0
Beryllium	0.44		0.4		9.5
Calcium	1050		689		41.5
Cadmium	0.95		0.86		9.9
Cobalt	12.3		7.29		51.1
Chromium	31.8		19.5		48.0

Lab Sample ID	GCL40167		GCL40193		
Client Sample ID	SB-2 (14-16')		FD-2		
Collection Date	05/26/2022		05/26/2022		
Analyte	**Result (mg/Kg)**	**Flag**	**Result (mg/Kg)**	**Flag**	**%RPD**
Copper	16.6		14.5		13.5
Iron	13600		13000		4.5
Potassium	939		594		45.0
Magnesium	3890		2510		43.1
Manganese	166		110		40.6
Sodium	152		71		72.6
Nickel	104		50.9		68.6
Lead	7.5		5.3		34.4
Vanadium	23.7		19.3		20.5
Zinc	37.1		24.5		40.9

Qualification: None required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – ICP-AES and Mercury – Matrix Spike (MS) was performed on sample SB-1 (14-16') (GCL40164). MS %Recs were outside the control limits for sodium (176% %R). Other exceedances (potassium) were not qualified since the sample concentrations were >4x the spike concentration.

Qualification: The result for sodium in sample SB-1 (14-16') was qualified as estimated bias high (J+).

– ICP-AES and Mercury – Matrix Spike (MS) was performed on sample SB-8 (14-16') (GCL40185). MS %Recs were outside the control limits for potassium (148% %R) and sodium (150% %R).

Qualification: Results for sodium and potassium in sample SB-8 (14-16') were qualified as estimated bias high (J+).

– ICP-AES and Mercury – Matrix Spike (MS) was performed on sample SB-7 (14-16') (GCL40182). MS %Recs were inside the control limits.

Qualification: None required.

–Mercury – Matrix Spike (MS) was performed on sample FB-1 (GCL40196). MS %Recs were inside the control limits.

Qualification: None required.

Sample Duplicate – ICP-AES and Mercury – Laboratory Duplicate was performed on sample FB-1 (GCL40196). Laboratory duplicate RPDs were within control limit.

Qualification: None required.

– ICP-AES and Mercury – Laboratory Duplicate was performed on sample SB-1 (14-16') (GCL40164). Laboratory duplicate RPDs were outside the control limits for calcium (39.8%), chromium (38.9%), and sodium (49.8%). Result for sodium was previously qualified due to MS

%R outside the QC limits.

Qualification: Results for calcium and chromium were qualified as estimated (J) in sample SB-1 (14-16').

– ICP-AES and Mercury – Laboratory Duplicate was performed on sample SB-8 (14-16') (GCL40185). Laboratory duplicate RPDs were outside the control limits for chromium (35.0%).

Qualification: Result for chromium was qualified as estimated (J) in sample SB-8 (14-16').

– ICP-AES and Mercury – Laboratory Duplicate was performed on sample SB-7 (14-16') (GCL40182). Laboratory duplicate RPDs were within control limits.

Qualification: None required.

ICP-AES Serial Dilution – ICP serial dilution was performed on sample SB-1 (14-16') (GCL40164). For all results for which the concentration in the original sample is ≥ 50x the Method Detection Limits (MDL), the serial dilution analysis (a five-fold dilution) was inside the acceptable limit (%D ± 10%).

Qualification: None required.

– ICP serial dilution was performed on sample SB-8 (14-16') (GCL40185). For all results for which the concentration in the original sample is ≥ 50x the Method Detection Limits (MDL), the serial dilution analysis (a five-fold dilution) was inside the acceptable limit (%D ± 10%).

Qualification: None required.

– ICP serial dilution was performed on sample SB-8 (14-16') (GCL40185). For all results for which the concentration in the original sample is ≥ 50x the Method Detection Limits (MDL), the serial dilution analysis (a five-fold dilution) was inside the acceptable limit (%D ± 10%).

Qualification: None required.

Verification of Instrumental Parameters – The following Forms were present in the data package:

– Method Detection Limits, Form- X.
– ICP-AES Interelement Correction Factors, Form -XIA and Form-XIB.
– ICP-AES Linear Ranges, Form XII.

Compound Quantitation and Reported Detection Limits – All sample results were reported within the linear calibration range. Numerous samples required 2x, 5x, and 10x dilutions.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary – The trace metal results reported in this SDG are acceptable as reported and may be used for their intended purpose.

– Trace Metals data package requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (mg/Kg)	Lab Qualifier	Validated Value (mg/Kg)	Validation Qualifier
SB-1 (0-2')	GCL40162	Mercury	0.03		0.03	J+
SB-1 (6-8')	GCL40163	Metals	No qualification needed.			
SB-1 (14-16')	GCL40164	Sodium	183		183	J+
SB-1 (14-16')	GCL40164	Calcium	1590		1590	J
SB-1 (14-16')	GCL40164	Chromium	34.7		34.7	J
SB-2 (0-2')	GCL40165	Mercury	0.04		0.04	J+
SB-2 (6-8')	GCL40166	Metals	No qualification needed.			
SB-2 (14-16')	GCL40167	Metals	No qualification needed.			
SB-3 (0-2')	GCL40168	Metals	No qualification needed.			
SB-3 (6-8')	GCL40169	Metals	No qualification needed.			
SB-3 (14-16')	GCL40170	Mercury	0.17		0.17	J+
SB-4 (0-2')	GCL40171	Metals	No qualification needed.			
SB-4 (6-8')	GCL40172	Metals	No qualification needed.			
SB-4 (14-16')	GCL40173	Metals	No qualification needed.			
SB-5 (0-2')	GCL40174	Mercury	0.10		0.10	J+
SB-5 (6-8')	GCL40175	Metals	No qualification needed.			
SB-5 (14-16')	GCL40176	Metals	No qualification needed.			
SB-6 (0-2')	GCL40177	Mercury	0.12		0.12	J+
SB-6 (6-8')	GCL40178	Metals	No qualification needed.			
SB-6 (14-16')	GCL40179	Sodium	140		140	J
SB-7 (0-2')	GCL40180	Mercury	0.11		0.11	J+
SB-7 (6-8')	GCL40181	Metals	No qualification needed.			
SB-7 (14-16')	GCL40182	Metals	No qualification needed.			
SB-8 (0-2')	GCL40183	Mercury	0.28		0.28	J+
SB-8 (6-8')	GCL40184	Metals	No qualification needed.			
SB-8 (14-16')	GCL40185	Sodium	128		128	J+
SB-8 (14-16')	GCL40185	Potassium	516		516	J+
SB-8 (14-16')	GCL40185	Chromium	7.93		7.93	J
SB-9 (0-2')	GCL40186	Mercury	0.09		0.09	J+
SB-9 (6-8')	GCL40187	Metals	No qualification needed.			
SB-9 (14-16')	GCL40188	Metals	No qualification needed.			
SB-10 (0-2')	GCL40189	Mercury	0.27		0.27	J+
SB-10 (6-8')	GCL40190	Metals	No qualification needed.			
SB-10 (14-16')	GCL40191	Mercury	0.03		0.03	J+
FD-1	GCL40192	Sodium	431		431	J
FD-2	GCL40193	Metals	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (mg/Kg)	Lab Qualifier	Validated Value (mg/Kg)	Validation Qualifier
FB-1	GCL40196	Metals	No qualification needed.			
Equipment Blank	GCL40197	Metals	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
GENERAL CHEMISTRY
(HEXAVALENT CHROMIUM/TOTAL CYANIDE)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL40162
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 09/20/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2')	GCL40162	05/26/2022	CR+6/CN	Soil
SB-1 (6-8')	GCL40163	05/26/2022	CR+6/CN	Soil
SB-1 (14-16')	GCL40164	05/26/2022	CR+6/CN	Soil
SB-2 (0-2')	GCL40165	05/26/2022	CR+6/CN	Soil
SB-2 (6-8')	GCL40166	05/26/2022	CR+6/CN	Soil
SB-2 (14-16')	GCL40167	05/26/2022	CR+6/CN	Soil
SB-3 (0-2')	GCL40168	05/26/2022	CR+6/CN	Soil
SB-3 (6-8')	GCL40169	05/26/2022	CR+6/CN	Soil
SB-3 (14-16')	GCL40170	05/26/2022	CR+6/CN	Soil
SB-4 (0-2')	GCL40171	05/26/2022	CR+6/CN	Soil
SB-4 (6-8')	GCL40172	05/26/2022	CR+6/CN	Soil
SB-4 (14-16')	GCL40173	05/26/2022	CR+6/CN	Soil
SB-5 (0-2')	GCL40174	05/26/2022	CR+6/CN	Soil
SB-5 (6-8')	GCL40175	05/26/2022	CR+6/CN	Soil
SB-5 (14-16')	GCL40176	05/26/2022	CR+6/CN	Soil
SB-6 (0-2')	GCL40177	05/26/2022	CR+6/CN	Soil
SB-6 (6-8')	GCL40178	05/26/2022	CR+6/CN	Soil
SB-6 (14-16')	GCL40179	05/26/2022	CR+6/CN	Soil
SB-7 (0-2')	GCL40180	05/26/2022	CR+6/CN	Soil
SB-7 (6-8')	GCL40181	05/26/2022	CR+6/CN	Soil
SB-7 (14-16')	GCL40182	05/26/2022	CR+6/CN	Soil
SB-8 (0-2')	GCL40183	05/26/2022	CR+6/CN	Soil
SB-8 (6-8')	GCL40184	05/26/2022	CR+6/CN	Soil
SB-8 (14-16')	GCL40185	05/26/2022	CR+6/CN	Soil
SB-9 (0-2')	GCL40186	05/26/2022	CR+6/CN	Soil
SB-9 (6-8')	GCL40187	05/26/2022	CR+6/CN	Soil

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-9 (14-16')	GCL40188	05/26/2022	CR+6/CN	Soil
SB-10 (0-2')	GCL40189	05/26/2022	CR+6/CN	Soil
SB-10 (6-8')	GCL40190	05/26/2022	CR+6/CN	Soil
SB-10 (14-16')	GCL40191	05/26/2022	CR+6/CN	Soil
FD-1	GCL40192	05/26/2022	CR+6/CN	Soil
FD-2	GCL40193	05/26/2022	CR+6/CN	Soil
FB-1	GCL40196	05/26/2022	CR+6/CN	Field Blank
Equipment Blank	GCL40197	05/26/2022	CR+6/CN	Equipment Blank

Summary - Data validation was performed on thirty-two (32) soil samples, one (1) equipment blank, and one (1) field blank were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for the following analyses:

1.1 Hexavalent Chromium by SW-846 Method 7196A.
1.2 Total Cyanide by SW-846 Method 9012B.

All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 05/27/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte

DV Qualifier	Explanation
	may or may not be present in the sample.

Holding Times – All soil samples were extracted within 7 days from sample collection and analyzed within 28 days following sample extraction for hexavalent chromium.

Qualification: None required.

– All soil samples were digested and analyzed within the 14 days holding times for total cyanide analysis.

Qualification: None required.

Blanks (Method Blank, ICB and CCB) – ICB and CCBs associated with the field samples were free of contamination for hexavalent chromium and cyanide.

Qualification: None required.

Field Blank (FB) and Equipment Blank (EB) – The field blank (FB-1 [GCL40196]) associated with these samples was free of contamination for total cyanide and hexavalent chromium.

Qualification: None required.

– Equipment Blank (GCL40197) associated with the soil samples collected on 05/26/2022 was free of contamination for total cyanide and hexavalent chromium.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – Hexavalent Chromium and Total Cyanide – Laboratory Control Sample %RECs were within the laboratory control limits for hexavalent chromium and total cyanide.

Qualification: None required.

Field Duplicate (FD) — Two soil duplicate pairs were submitted with this SDG. Sample FD-1 (Lab Sample ID: GCL40192) was the field duplicate sample of SB-6 (14-16') (Lab Sample ID: GCL40179). The results for Total Cyanide Hexavalent chromium were non-detect in the FD sample pair.

Qualification: None required.

— Sample FD-2 (Lab Sample ID: GCL40193) was the field duplicate sample of SB-2 (14-16') (Lab Sample ID: GCL40167). The results for Total Cyanide were non-detect in the FD sample pair. Hexavalent chromium was non-detect in the field sample (ND) but was detected in the field duplicate sample (0.40 mg/Kg).

Qualification: Hexavalent chromium was qualified as estimated (UJ/J) in the field duplicate pair (SB-2 (14-16') and FD-2, respectively).

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) –Hexavalent chromium – MS was performed on sample SB-8 (14-16') (GCL40185). The %R (71.6%) was outside the control limits.

Qualification: Non-detect result for hexavalent chromium was qualified as estimated (UJ) in sample SB-8 (14-16').

–Hexavalent chromium – MS was performed on sample FD-2 (GCL40193). The %R (80.4%) was outside the control limits.

Qualification: The result for hexavalent chromium was qualified as estimated (J) in sample FD-2.

– Total Cyanide – MS/MSD were performed on samples SB-1 (14-16') (GCL40164), SB-7 (14-16') (GCL40182), SB-8 (14-16') (GCL40185), and Equipment Blank (GCL40197). %RECs were within the laboratory control limits.

Qualification: None required.

Laboratory Duplicate– Hexavalent Chromium – Laboratory Duplicate was performed on sample SB-8 (14-16') (GCL40185), FD-2 (GCL40193), and FB-1 (GCL40196). RPDs were within the laboratory control limits.

Qualification: None required.

– Total Cyanide – Laboratory Duplicate was performed on sample SB-1 (14-16') (GCL40164), SB-7 (14-16') (GCL40182), SB-8 (14-16') (GCL40185), and Equipment Blank (GCL40197). RPDs were within the laboratory control limits.

Qualification: None required.

Compound Quantitation and Reported Detection Limits – All sample results were reported within the linear calibration range.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary – The total cyanide and hexavalent chromium results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– General chemistry data package requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (mg/Kg)	Lab Qualifier	Validated Value (mg/Kg)	Validation Qualifier
SB-1 (0-2')	GCL40162	Total Cyanide	No qualification needed.			
SB-1 (0-2')	GCL40162	Hexavalent Chromium	No qualification needed.			
SB-1 (6-8')	GCL40163	Total Cyanide	No qualification needed.			
SB-1 (6-8')	GCL40163	Hexavalent Chromium	No qualification needed.			
SB-1 (14-16')	GCL40164	Total Cyanide	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (mg/Kg)	Lab Qualifier	Validated Value (mg/Kg)	Validation Qualifier
SB-1 (14-16')	GCL40164	Hexavalent Chromium	No qualification needed.			
SB-2 (0-2')	GCL40165	Total Cyanide	No qualification needed.			
SB-2 (0-2')	GCL40165	Hexavalent Chromium	No qualification needed.			
SB-2 (6-8')	GCL40166	Total Cyanide	No qualification needed.			
SB-2 (6-8')	GCL40166	Hexavalent Chromium	No qualification needed.			
SB-2 (14-16')	GCL40167	Total Cyanide	No qualification needed.			
SB-2 (14-16')	GCL40167	Hexavalent Chromium	0.42	U	0.42	UJ
SB-3 (0-2')	GCL40168	Total Cyanide	No qualification needed.			
SB-3 (0-2')	GCL40168	Hexavalent Chromium	No qualification needed.			
SB-3 (6-8')	GCL40169	Total Cyanide	No qualification needed.			
SB-3 (6-8')	GCL40169	Hexavalent Chromium	No qualification needed.			
SB-3 (14-16')	GCL40170	Total Cyanide	No qualification needed.			
SB-3 (14-16')	GCL40170	Hexavalent Chromium	No qualification needed.			
SB-4 (0-2')	GCL40171	Total Cyanide	No qualification needed.			
SB-4 (0-2')	GCL40171	Hexavalent Chromium	No qualification needed.			
SB-4 (6-8')	GCL40172	Total Cyanide	No qualification needed.			
SB-4 (6-8')	GCL40172	Hexavalent Chromium	No qualification needed.			
SB-4 (14-16')	GCL40173	Total Cyanide	No qualification needed.			
SB-4 (14-16')	GCL40173	Hexavalent Chromium	No qualification needed.			
SB-5 (0-2')	GCL40174	Total Cyanide	No qualification needed.			
SB-5 (0-2')	GCL40174	Hexavalent Chromium	No qualification needed.			
SB-5 (6-8')	GCL40175	Total Cyanide	No qualification needed.			
SB-5 (6-8')	GCL40175	Hexavalent Chromium	No qualification needed.			
SB-5 (14-16')	GCL40176	Total Cyanide	No qualification needed.			
SB-5 (14-16')	GCL40176	Hexavalent Chromium	No qualification needed.			
SB-6 (0-2')	GCL40177	Total Cyanide	No qualification needed.			
SB-6 (0-2')	GCL40177	Hexavalent Chromium	No qualification needed.			
SB-6 (6-8')	GCL40178	Total Cyanide	No qualification needed.			
SB-6 (6-8')	GCL40178	Hexavalent Chromium	No qualification needed.			
SB-6 (14-16')	GCL40179	Total Cyanide	No qualification needed.			
SB-6 (14-16')	GCL40179	Hexavalent Chromium	No qualification needed.			
SB-7 (0-2')	GCL40180	Total Cyanide	No qualification needed.			
SB-7 (0-2')	GCL40180	Hexavalent Chromium	No qualification needed.			
SB-7 (6-8')	GCL40181	Total Cyanide	No qualification needed.			
SB-7 (6-8')	GCL40181	Hexavalent Chromium	No qualification needed.			
SB-7 (14-16')	GCL40182	Total Cyanide	No qualification needed.			
SB-7 (14-16')	GCL40182	Hexavalent Chromium	No qualification needed.			
SB-8 (0-2')	GCL40183	Total Cyanide	No qualification needed.			
SB-8 (0-2')	GCL40183	Hexavalent Chromium	No qualification needed.			
SB-8 (6-8')	GCL40184	Total Cyanide	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (mg/Kg)	Lab Qualifier	Validated Value (mg/Kg)	Validation Qualifier
SB-8 (6-8')	GCL40184	Hexavalent Chromium	No qualification needed.			
SB-8 (14-16')	GCL40185	Total Cyanide	No qualification needed.			
SB-8 (14-16')	GCL40185	Hexavalent Chromium	0.40	U	0.40	UJ
SB-9 (0-2')	GCL40186	Total Cyanide	No qualification needed.			
SB-9 (0-2')	GCL40186	Hexavalent Chromium	No qualification needed.			
SB-9 (6-8')	GCL40187	Total Cyanide	No qualification needed.			
SB-9 (6-8')	GCL40187	Hexavalent Chromium	No qualification needed.			
SB-9 (14-16')	GCL40188	Total Cyanide	No qualification needed.			
SB-9 (14-16')	GCL40188	Hexavalent Chromium	No qualification needed.			
SB-10 (0-2')	GCL40189	Total Cyanide	No qualification needed.			
SB-10 (0-2')	GCL40189	Hexavalent Chromium	No qualification needed.			
SB-10 (6-8')	GCL40190	Total Cyanide	No qualification needed.			
SB-10 (6-8')	GCL40190	Hexavalent Chromium	No qualification needed.			
SB-10 (14-16')	GCL40191	Total Cyanide	No qualification needed.			
SB-10 (14-16')	GCL40191	Hexavalent Chromium	No qualification needed.			
FD-1	GCL40192	Total Cyanide	No qualification needed.			
FD-1	GCL40192	Hexavalent Chromium	No qualification needed.			
FD-2	GCL40193	Total Cyanide	No qualification needed.			
FD-2	GCL40193	Hexavalent Chromium	0.40		0.40	J
FB-1	GCL40196	Total Cyanide	No qualification needed.			
FB-1	GCL40196	Hexavalent Chromium	No qualification needed.			
Equipment Blank	GCL40197	Total Cyanide	No qualification needed.			
Equipment Blank	GCL40197	Hexavalent Chromium	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
PERFLUORINATED ALKYL ACIDS (PFAS)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: 22F0077
Laboratory: York Analytical Laboratories, Inc.	Date: 08/22/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 (0-2 ft)	22F0077-01	05/26/2022	PFAS	Soil
SB-1 (6-8 ft)	22F0077-02	05/26/2022	PFAS	Soil
SB-1 (14-16 ft)	22F0077-03	05/26/2022	PFAS	Soil
SB-2 (0-2 ft)	22F0077-04	05/26/2022	PFAS	Soil
SB-2 (6-8 ft)	22F0077-05	05/26/2022	PFAS	Soil
SB-2 (14-16 ft)	22F0077-06	05/26/2022	PFAS	Soil
SB-3 (0-2 ft)	22F0077-07	05/26/2022	PFAS	Soil
SB-3 (6-8 ft)	22F0077-08	05/26/2022	PFAS	Soil
SB-3 (14-16 ft)	22F0077-09	05/26/2022	PFAS	Soil
SB-4 (0-2 ft)	22F0077-10	05/26/2022	PFAS	Soil
SB-4 (6-8 ft)	22F0077-11	05/26/2022	PFAS	Soil
SB-4 (14-16 ft)	22F0077-12	05/26/2022	PFAS	Soil
SB-5 (0-2 ft)	22F0077-13	05/26/2022	PFAS	Soil
SB-5 (6-8 ft)	22F0077-14	05/26/2022	PFAS	Soil
SB-5 (14-16 ft)	22F0077-15	05/26/2022	PFAS	Soil
SB-6 (0-2 ft)	22F0077-16	05/26/2022	PFAS	Soil
SB-6 (6-8 ft)	22F0077-17	05/26/2022	PFAS	Soil
SB-6 (14-16 ft)	22F0077-18	05/26/2022	PFAS	Soil
SB-7 (0-2 ft)	22F0077-19	05/26/2022	PFAS	Soil
SB-7 (6-8 ft)	22F0077-20	05/26/2022	PFAS	Soil
SB-7 (14-16 ft)	22F0077-21	05/26/2022	PFAS	Soil
SB-8 (0-2 ft)	22F0077-22	05/26/2022	PFAS	Soil
SB-8 (6-8 ft)	22F0077-23	05/26/2022	PFAS	Soil
SB-8 (14-16 ft)	22F0077-24	05/26/2022	PFAS	Soil
SB-9 (0-2 ft)	22F0077-25	05/26/2022	PFAS	Soil
SB-9 (6-8 ft)	22F0077-26	05/26/2022	PFAS	Soil
SB-9 (14-16 ft)	22F0077-27	05/26/2022	PFAS	Soil
SB-10 (0-2 ft)	22F0077-28	05/26/2022	PFAS	Soil
SB-10 (6-8 ft)	22F0077-29	05/26/2022	PFAS	Soil
SB-10 (14-16 ft)	22F0077-30	05/26/2022	PFAS	Soil
SB-6 PFAS FB-1	22F0077-31	05/26/2022	PFAS	Field Blank

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-1 PFAS FB-2	22F0077-32	05/26/2022	PFAS	Field Blank

Summary - Data validation was performed on the data for thirty (30) soil samples and two (2) field blank samples that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/26/2022 and submitted for PFAS by PFAS-EPA 537.1M. All sample results in this SDG were subjected to Level 2B data validation using NYSDEC Appendix H – Data Review Guidelines for Analysis of PFAS Non-Potable Water and Solids, Jan 2020.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No other discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All soil samples were extracted within 14 days from sample collection and analyzed within 40 days following sample extraction.

Qualification: None required.

Initial Calibration and Continuing Calibration Verification (CCV) – Initial calibration and continuing calibration verifications met the method acceptance criteria in Batch sequence Y2F0748 except for in CCV 1 (8:2 FTS [131%]), CCV 2 (8:2 FTS [145%]) CCV3 (N-EtFOSAA ([65.2%] and 6:2 FTS [132%]) and CCV-4 (6:2 FTS [134%], 8:2 FTS [162%]). 8:2 FTS and 6:2 FTS were non-detect in the associated samples.

Qualification: Non-detect results for NEtFOSAA were qualified as estimated (UJ) in samples PFAS FB-1 and SB-1 PFAS FB-2.

– Initial calibration and continuing calibration verifications met the method acceptance criteria in Batch sequence Y2F1021.

Qualification: None required.

– Initial calibration and continuing calibration verifications met the method acceptance criteria in Batch sequence Y2F1048.

Qualification: None required.

Surrogates (Extracted Internal Standard) –Surrogate %REC values were within the QC acceptance limits for the SIM scan except for d3-NMeFOSAA in samples SB-08 (14-16 ft) (17.1%); d5-NEtFOSAAA in sample SB-8 (14-16 ft) (10.4%); M2PFTeDA in sample SB-8 (14-16 ft) (6.22%); M7PFUdA in sample SB-8 (14-16 ft) (16.6); M8FOSA in sample SB-8 (14-16 ft) (4.72%); and MPFDoA in sample SB-8 (14-16 ft) (11.2%).

Qualification: Non-detect results for NMeFOSAA, NEtFOSAA, PFTrDA, PFDoA, PFUnA, and FOSA were qualified as estimated (UJ) in sample SB-8 (14-16 ft).

Method Blank (MB), Field Blank (FB) and Equipment Blank (EB) – Method Blank (BF20438-BLK) associated with the soil samples extracted on 06/07/2022 and analyzed on 06/10/2022. The method blank prepared and analyzed with these samples contained PFHxA (0.587 ug/Kg). Results for PFHxA were non-detect in the associated samples.

Qualification: None required.

– Method Blank (BF20323-BLK1) associated with the soil samples extracted on 06/06/2022 and analyzed on 06/07/2022. The method blank prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– Method Blank (BF20398-BLK) associated with the soil samples extracted on 06/07/2022 and analyzed on 06/09/2022. The method blank prepared and analyzed with these samples contained 8:2FTS (0.237 J ug/Kg). Results for 8:2FTS were non-detect in the associated samples.

Qualification: None required.

– SB-6 PFAS FB-1 (22F0077-31) associated with the soil samples collected on 05/26/2022. The field blank collected with these samples was free of contamination.

Qualification: None required.

– SB-1 PFAS FB-2 (22F0077-32) associated with the soil samples collected on 05/26/2022. The field blank collected with these samples was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – Laboratory Control Sample BF20323-BS1/BSD1 was analyzed on 06/07/2022. %RECs were outside the control limits for FOSA (139% %R) and PFTA (131% %R). Results for FOSA and PFTA were non-detect in the associated field blank samples; no qualifications were required.

Qualification: None required.

– Laboratory Control Sample BF20398-BS1 was analyzed on 06/07/2022. %RECs were outside the control limits for PFTA (158% %R) and PFHpS (147% %R). Results for PFTA and PFHpS were non-detect in the associated field samples; no qualifications were required.

Qualification: None required.

– Laboratory Control Sample BF20438-BS1 was analyzed on 06/07/2022. %RECs were outside the control limits for PFHpA (136% %R), PFHxS (145% %R), PFTrDA (131% %R), and PFTA (149% %R). Results for PFHpA, PFHxS, PFTrDA, and PFTA were non-detect in the associated samples; no qualifications were required.

Qualification: None required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) – Matrix Spike (MS)Matrix Spike Duplicate were not performed on a sample from this SDG.

Qualification: None required.

Laboratory Duplicate (LD) – LD was performed on sample SB-4 (6-8 ft) (22F0077-11). LD RPDs were within the QC limits.

Qualification: None required.

Field Duplicate (FD) –Soil duplicate pair was not submitted with this SDG.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits

– Analyte non-detections were reported as "U"; these results should be considered the equivalent of "PQL U." Analyte detections below the PQL were reported as J qualified results (BRL). These J qualifiers were retained unless superseded by a more severe qualifier.

Qualification: None required.

– %Solids for all soil samples in this SDG were >50%.

Qualification: None required.

Data Review Summary – The PFAS results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– PFAS data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (ng/L)	Lab Qualifier	Validated Value (ng/L)	Validation Qualifier
SB-1 (0-2 ft)	22F0077-01	PFAS	No qualification needed.			
SB-1 (6-8 ft)	22F0077-02	PFAS	No qualification needed.			

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (ng/L)	Lab Qualifier	Validated Value (ng/L)	Validation Qualifier
SB-1 (14-16 ft)	22F0077-03	PFAS	No qualification needed.			
SB-2 (0-2 ft)	22F0077-04	PFAS	No qualification needed.			
SB-2 (6-8 ft)	22F0077-05	PFAS	No qualification needed.			
SB-2 (14-16 ft)	22F0077-06	PFAS	No qualification needed.			
SB-3 (0-2 ft)	22F0077-07	PFAS	No qualification needed.			
SB-3 (6-8 ft)	22F0077-08	PFAS	No qualification needed.			
SB-3 (14-16 ft)	22F0077-09	PFAS	No qualification needed.			
SB-4 (0-2 ft)	22F0077-10	PFAS	No qualification needed.			
SB-4 (6-8 ft)	22F0077-11	PFAS	No qualification needed.			
SB-4 (14-16 ft)	22F0077-12	PFAS	No qualification needed.			
SB-5 (0-2 ft)	22F0077-13	PFAS	No qualification needed.			
SB-5 (6-8 ft)	22F0077-14	PFAS	No qualification needed.			
SB-5 (14-16 ft)	22F0077-15	PFAS	No qualification needed.			
SB-6 (0-2 ft)	22F0077-16	PFAS	No qualification needed.			
SB-6 (6-8 ft)	22F0077-17	PFAS	No qualification needed.			
SB-6 (14-16 ft)	22F0077-18	PFAS	No qualification needed.			
SB-7 (0-2 ft)	22F0077-19	PFAS	No qualification needed.			
SB-7 (6-8 ft)	22F0077-20	PFAS	No qualification needed.			
SB-7 (14-16 ft)	22F0077-21	PFAS	No qualification needed.			
SB-8 (0-2 ft)	22F0077-22	PFAS	No qualification needed.			
SB-8 (6-8 ft)	22F0077-23	PFAS	No qualification needed.			
SB-8 (14-16 ft)	22F0077-24	NMeFOSAA	0.249	U	0.249	UJ
SB-8 (14-16 ft)	22F0077-24	NEtFOSSA	0.249	U	0.249	UJ
SB-8 (14-16 ft)	22F0077-24	PFTrDA	0.249	U	0.249	UJ
SB-8 (14-16 ft)	22F0077-24	PFDoA	0.249	U	0.249	UJ
SB-8 (14-16 ft)	22F0077-24	PFUnA	0.249	U	0.249	UJ
SB-8 (14-16 ft)	22F0077-24	FOSA	0.249	U	0.249	UJ
SB-9 (0-2 ft)	22F0077-25	PFAS	No qualification needed.			
SB-9 (6-8 ft)	22F0077-26	PFAS	No qualification needed.			
SB-9 (14-16 ft)	22F0077-27	PFAS	No qualification needed.			
SB-10 (0-2 ft)	22F0077-28	PFAS	No qualification needed.			
SB-10 (6-8 ft)	22F0077-29	PFAS	No qualification needed.			
SB-10 (14-16 ft)	22F0077-30	PFAS	No qualification needed.			
SB-6 PFAS FB-1	22F0077-31	NEtFOSAA	2.00	U	2.00	UJ
SB-1 PFAS FB-2	22F0077-32	NEtFOSAA	1.92	U	1.92	UJ

DATA USABILITY SUMMARY REPORT (DUSR)
SEMI-VOLATILE ORGANIC COMPOUNDS (including 1,4-Dioxane)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45757
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 07/21/23
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-2/GW-1 (17.5')	GCL45759	05/31/2022	SVOC/1,4-Dioxane	Water
SB-7/GW-2 (17.15')	GCL45760	05/31/2022	SVOC/1,4-Dioxane	Water
SB-3/GW-3 (16.68')	GCL45761	05/31/2022	SVOC/1,4-Dioxane	Water
SB-4/GW-4 (17.35')	GCL45762	05/31/2022	SVOC/1,4-Dioxane	Water
SB-5/GW-5 (17.19')	GCL45763	05/31/2022	SVOC/1,4-Dioxane	Water
SB-6/GW-6 (16.70')	GCL45764	05/31/2022	SVOC/1,4-Dioxane	Water
GW FD-1	GCL45765	05/31/2022	SVOC	Field Duplicate
GW FB-1	GCL45766	05/31/2022	SVOC	Field Blank
Equipment Blank 2	GCL45767	05/31/2022	SVOC	Equipment Blank

Summary - Data validation was performed on the data for seven (7) aqueous samples, one (1) equipment blank sample, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for Semi-Volatile Organic (SVOC) analyses by SW846 Method 8270D and Method 8270D-SIM (including 1,4-dioxane). All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.

DV Qualifier	Explanation
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times–All samples were extracted within 14 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

Surrogates –Surrogate %R values were within the QC acceptance limits for waters except for phenol-d5 (14%) in sample SB-5/GW-5 (17.19'). Results reported were not associated with this surrogate.

Qualification: None required.

–Surrogate %R values were within the QC acceptance limits for 1,4-dioxane.

Qualification: None required.

Internal Standard (IS) Area Performance – Samples exhibited acceptable area count for the internal standards for aqueous samples. Samples exhibited acceptable area count for the internal standards for 1,4-dioxane.

Qualification: None required.

Method Blank (MB) – The method blanks prepared and analyzed with the aqueous samples were free of contamination.

Qualification: None required.

– The method blanks prepared and analyzed with the 1,4-dioxane analysis were free of contamination.

Qualification: None required.

Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB), and Equipment Blank (EB) – The field blank (GW FB-1 [GCL45766]) associated with these samples contained bis(2-ethylhexyl)phthalate (1.2 ug/L). Bis(2-ethylhexyl)phthalate was non-detect in the field samples, no qualifications were required.

Qualification: None required.

– The Equipment blank 2 (GCL45767) associated with these samples was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL45760 LCS/LCSD 10x (sims) was analyzed on 06/02/2022. %RECs/RPDs were within the laboratory control limits except for n-nitrosodimethylamine (134% %R and 21.5% RPD) and benzo(k)fluoranthene (132% %R). Result for n-nitrosodimethylamine and benzo(k)fluoranthene in the associated samples were non-detect.

Qualification: None required.

– LCS/LCSD associated with ID: CL45760 LCS was analyzed on 06/06/2022 (including 1,4-dioxane). All %RECs/RPDs were within the laboratory control limits except for pyridine (30.8% RPD) and benzoic acid (24.2% RPD). Results for pyridine and benzoic acid were non-detect in the associated samples.

Qualification: None required.

Field Duplicate – One aqueous duplicate pair was submitted with this SDG. Sample GW FD-1 (Lab Sample ID: GCL45765) was the field duplicate sample of SB-4/GW-4 (17.35') (Lab Sample ID: GCL45762). SVOC results were non-detect in the field duplicate pair. Note: 1,4-dioxane was not submitted for analysis in the field duplicate.

Qualification: None required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on a sample from this SDG.

Qualification: None required.

– Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-7/GW-2 (17.15') (CL45760). %REC/RPD were within the laboratory control limits for 1,4-dioxane.

Qualification: None required.

Compound Quantitation and Reported Detection Limits –Sample results were reported within the linear calibration range.

Qualification: None required.

Data Review Summary – The SVOC results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– Semivolatile data package meets requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/L)	Lab Qualifier	Validated Value (µg/L)	Validation Qualifier
SB-2/GW-1 (17.5')	GCL45759	SVOCs	No qualification needed.			
SB-7/GW-2 (17.15')	GCL45760	SVOCs	No qualification needed.			
SB-3/GW-3 (16.68')	GCL45761	SVOCs	No qualification needed.			
SB-4/GW-4 (17.35')	GCL45762	SVOCs	No qualification needed.			
SB-5/GW-5 (17.19')	GCL45763	SVOCs	No qualification needed.			
SB-6/GW-6 (16.70')	GCL45764	SVOCs	No qualification needed.			
GW FD-1	GCL45765	SVOCs	No qualification needed.			
GW FB-1	GCL45766	SVOCs	No qualification needed.			
Equipment Blank 2	GCL45767	SVOCs	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
VOLATILE ORGANIC COMPOUNDS
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45757
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 07/21/23
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
TB-2	GCL45758	05/31/2022	VOC	Trip Blank
SB-2/GW-1 (17.5')	GCL45759	05/31/2022	VOC	Water
SB-7/GW-2 (17.15')	GCL45760	05/31/2022	VOC	Water
SB-3/GW-3 (16.68')	GCL45761	05/31/2022	VOC	Water
SB-4/GW-4 (17.35')	GCL45762	05/31/2022	VOC	Water
SB-5/GW-5 (17.19')	GCL45763	05/31/2022	VOC	Water
SB-6/GW-6 (16.70')	GCL45764	05/31/2022	VOC	Water
GW FD-1	GCL45765	05/31/2022	VOC	Field Duplicate
GW FB-1	GCL45766	05/31/2022	VOC	Field Blank
Equipment Blank 2	GCL45767	05/31/2022	VOC	Equipment Blank

Summary - Data validation was performed on the data for seven (7) aqueous samples, one (1) trip blank, one (1) equipment blank, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for Volatile Organic (VOC) analyses by SW846 Method 8260C. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.

DV Qualifier	Explanation
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times –All samples were analyzed within the 14-day holding time required for aqueous samples.

Qualification: None required.

GC/MS Tuning - All BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Qualification: None required.

Surrogates – All surrogate percent recoveries were within the control limits.

Qualification: None required.

Internal Standard (IS) Area Performance – Samples exhibited acceptable area counts for all internal standards.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL45758 LCS was analyzed on 06/01/2022. %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

– LCS/LCSD associated with ID: CL45760 LCS was analyzed on 06/02/2022. All %RECs/RPDs were within the laboratory control limits except tetrahydrofuran (68% %R) and methyl ethyl ketone (69% %R).

Qualification: Non-detect results for tetrahydrofuran and methyl ethyl ketone in samples SB-7/GW-2 (17.15'), SB-6/GW-6 (16.70'), SB-2/GW-1 (17.5'), SB-3/GW-3 (16.68'), SB-4/GW-4 (17.35'), and GW FD-1 were qualified as estimated (UJ).

– LCS/LCSD associated with ID: CL47868 LCS was analyzed on 06/06/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on sample SB-7/GW-2 (17.15') (CL45760). %REC/RPD were inside the laboratory control limits except for dichlorodifluoromethane (68% %R), bromomethane (60% %R and 49.1% RPD), 1,1,2-trichloroethane (134% %R), 1,2,3-trichloropropane (31.6% RPD),

and 1,2,3-trichlorobenzene (30.5% RPD). Results for 1,1,2-trichloroethane, 1,2,3-trichloropropane, and 1,2,3-trichlorobenzene were non-detect in the field sample.

Qualification: Non-detect results for dichlorodifluoromethane and bromomethane in sample SB-7/GW-2 (17.15') were qualified as estimated (UJ) in sample SB-7/GW-2 (17.15').

Method Blank – The method blank (CL45758) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL45760) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

– The method blank (CL47868) prepared and analyzed with these samples was free of contamination.

Qualification: None required.

Trip Blanks (TB), Field Blanks (FB), and Equipment Blanks (EB) – Equipment Blank 2 (GCL45767) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

– Field Blank (GW FB-1 [GCL45766]) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

– Trip Blank (TB-2 [GCL45758]) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

Field Duplicate (FD) – One aqueous duplicate pair was submitted with this SDG. Sample GW FD-1 (Lab Sample ID: GCL45765) was the field duplicate sample of SB-4/GW-4 (17.35') (Lab Sample ID: GCL45762). The FD sample results for detected VOCs in the FD sample pair are summarized in the table below. Ethylbenzene was detected in the field duplicate but was non-detect in the field sample. The calculated %RPDs between detected FD sample results were < 50% (see below) except for m&p-xylene, isopropylbenzene, and 1,2,4-trimethylbenzene.

Lab Sample ID	GCL45		GCL45765		
Client Sample ID	SB-4/GW-4 (17.35')		GW FD-1		
Collection Date	05/31/2022		05/31/2022		
Compound	**Result (ug/L)**	**Flag**	**Result (ug/L)**	**Flag**	**%RPD**
Ethylbenzene	2.0	U	0.67	J	NC
m&p-xylene	1.4	J	2.5		**56.4**
Isopropylbenzene	40		58		**149.3**
n-Propylbenzene	100		110		9.5
1,3,5-Trimethylbenzene	0.51	J	0.83	J	47.8

Lab Sample ID	GCL45		GCL45765		
Client Sample ID	SB-4/GW-4 (17.35')		GW FD-1		
Collection Date	05/31/2022		05/31/2022		
Compound	**Result (ug/L)**	**Flag**	**Result (ug/L)**	**Flag**	**%RPD**
Tert-Butylbenzene	3.1		3.4		9.2
1,2,4-Trimethylbenzene	0.55	J	1.1	J	**66.7**
Sec-Butylbenzene	15		17		12.5
p-Isopropyltoluene	1.4	J	1.7	J	19.4
2-Isopropyltoluene	8.0		8.8		9.5
n-Butylbenzene	14		16		13.3

NC-Not calculated.

Qualification: Ethylbenzene was qualified as estimated (UJ/J) in the field duplicate pair (SB-4/GW-4 [17.35'] and GW FD-1). Results for m&p-xylene, isopropylbenzene, and 1,2,4-trimethylbenzene were qualified as estimated (J) in the field duplicate pair (SB-4/GW-4 [17.35'] and GW FD-1).

Compound Quantitation, Compound Identification and Reported Detection Limits – Analyte non-detections were reported as "U"; these results should be considered the equivalent of "PQL U." Analyte detections below the PQL were reported as J qualified results. These J qualifiers were retained unless superseded by a more severe qualifier.

Qualification: None required.

– Samples SB-2/GW-1 (17.5'), SB-7/GW-2 (17.15'), SB-3/GW-3 (16.68'), SB-4/GW-4 (17.35'), and GW FD-1 were analyzed at a 2x dilution. Results for n-propylbenzene required 20x dilution in samples SB-2/GW-1 (17.5'), SB-3/GW-3 (16.68'), SB-4/GW-4 (17.35'), and GW FD-1. Result for isopropylbenzene required 20x in sample SB-3/GW-3 (16.68'). Results for n-propylbenzene required 5x dilution in sample SB-6/GW-6 (16.70').

Qualification: None required.

Data Review Summary –VOC results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– Volatile aqueous data package meets the requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/L)	Lab Qualifier	Validated Value (µg/L)	Validation Qualifier
TB-2	GCL45758	VOCs	No qualification needed.			
SB-2/GW-1 (17.5')	GCL45759	Tetrahydrofuran	5.0	U	5.0	UJ
SB-2/GW-1 (17.5')	GCL45759	Methyl ethyl ketone	10	U	10	UJ
SB-7/GW-2 (17.15')	GCL45760	Tetrahydrofuran	2.5	U	2.5	UJ
SB-7/GW-2 (17.15')	GCL45760	Methyl ethyl ketone	5.0	U	5.0	UJ
SB-7/GW-2 (17.15')	GCL45760	Dichlorodifluoromethane	1.0	U	1.0	UJ
SB-7/GW-2 (17.15')	GCL45760	Bromomethane	1.0	U	1.0	UJ
SB-3/GW-3 (16.68')	GCL45761	Tetrahydrofuran	5.0	U	5.0	UJ

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/L)	Lab Qualifier	Validated Value (µg/L)	Validation Qualifier
SB-7/GW-2 (17.15')	GCL45760	Methyl ethyl ketone	10	U	10	UJ
SB-4/GW-4 (17.35')	GCL45762	Tetrahydrofuran	5.0	U	5.0	UJ
SB-4/GW-4 (17.35')	GCL45762	Methyl ethyl ketone	10	U	10	UJ
SB-4/GW-4 (17.35')	GCL45762	Ethylbenzene	2.0	U	2.0	UJ
SB-4/GW-4 (17.35')	GCL45762	M&p-xylene	1.4	J	1.4	J
SB-4/GW-4 (17.35')	GCL45762	Isopropylbenzene	40		40	J
SB-4/GW-4 (17.35')	GCL45762	1,2,4-Trimethylbenzene	0.55	J	0.55	J
SB-5/GW-5 (17.19')	GCL45763	VOCs	No qualification needed.			
SB-6/GW-6 (16.70')	GCL45764	Tetrahydrofuran	2.5	U	2.5	UJ
SB-6/GW-6 (16.70')	GCL45764	Methyl ethyl ketone	5.0	U	5.0	UJ
GW FD-1	GCL45765	Tetrahydrofuran	5.0	U	5.0	UJ
GW FD-1	GCL45765	Methyl ethyl ketone	10	U	10	UJ
GW FD-1	GCL45765	Ethylbenzene	0.67	J	0.67	J
GW FD-1	GCL45765	M&p-xylene	2.5		2.5	J
GW FD-1	GCL45765	Isopropylbenzene	58		58	J
GW FD-1	GCL45765	1,2,4-Trimethylbenzene	1.1	J	1.1	J
GW FB-1	GCL45766	VOCs	No qualification needed.			
Equipment Blank 2	GCL45767	VOCs	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
POLYCHLORINATED BIPHENYLIS (PCBs)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45757
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 07/21/23
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-2/GW-1 (17.5')	GCL45759	05/31/2022	PCBs	Water
SB-7/GW-2 (17.15')	GCL45760	05/31/2022	PCBs	Water
SB-3/GW-3 (16.68')	GCL45761	05/31/2022	PCBs	Water
SB-4/GW-4 (17.35')	GCL45762	05/31/2022	PCBs	Water
SB-5/GW-5 (17.19')	GCL45763	05/31/2022	PCBs	Water
SB-6/GW-6 (16.70')	GCL45764	05/31/2022	PCBs	Water
GW FD-1	GCL45765	05/31/2022	PCBs	Field Duplicate
GW FB-1	GCL45766	05/31/2022	PCBs	Field Blank
Equipment Blank 2	GCL45767	05/31/2022	PCBs	Equipment Blank

Summary - Data validation was performed on the data for seven (7) aqueous samples, one (1) field blank sample, and one (1) equipment blank that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for PCBs by SW-846 Method 8082A in accordance with NYSDEC, Analytical Services Protocol (ASP) Format. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.

DV Qualifier	Explanation
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All samples were extracted within 7 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

Surrogates – All surrogates %RECs values for all aqueous samples were within the laboratory control limits.

Qualification: None required.

Method Blank (MB), Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB) – Method Blank (CL45760 BL) associated with the field blank sample extracted on 06/03/2022 and analyzed on 06/06/2022 was free of contamination.

Qualification: None required.

– Equipment Blank 2 (GCL45767) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

– Field Blank (GW FB-1 [GCL45766]) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – Laboratory Control Sample associated with ID: CL45760 were analyzed on 06/06/2022. All %RECs/RPDs were within the laboratory control limits.

Qualification: None required.

Field Duplicate – One aqueous duplicate pair was submitted with this SDG. Sample GW FD-1 (Lab Sample ID: GCL45765) was the field duplicate sample of SB-4/GW-4 (17.35') (Lab Sample ID: GCL45762). The results for PCBs in the FD sample pair were non-detect.

Qualification: None required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-7/GW-2 (17.15') (GCL45760). %REC/RPD were within the laboratory control limits.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – All sample results were reported within the linear calibration range.

Qualification: None required.

Data Review Summary – The PCBs results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– PCBs data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/L)	Lab Qualifier	Validated Value (µg/L)	Validation Qualifier
SB-2/GW-1 (17.5')	GCL45759	PCBs	No qualification needed.			
SB-7/GW-2 (17.15')	GCL45760	PCBs	No qualification needed.			
SB-3/GW-3 (16.68')	GCL45761	PCBs	No qualification needed.			
SB-4/GW-4 (17.35')	GCL45762	PCBs	No qualification needed.			
SB-5/GW-5 (17.19')	GCL45763	PCBs	No qualification needed.			
SB-6/GW-6 (16.70')	GCL45764	PCBs	No qualification needed.			
GW FD-1	GCL45765	PCBs	No qualification needed.			
GW FB-1	GCL45766	PCBs	No qualification needed.			
Equipment Blank 2	GCL45767	PCBs	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
PESTICIDES
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45757
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 07/21/23
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-2/GW-1 (17.5')	GCL45759	05/31/2022	Pesticides	Water
SB-7/GW-2 (17.15')	GCL45760	05/31/2022	Pesticides	Water
SB-3/GW-3 (16.68')	GCL45761	05/31/2022	Pesticides	Water
SB-4/GW-4 (17.35')	GCL45762	05/31/2022	Pesticides	Water
SB-5/GW-5 (17.19')	GCL45763	05/31/2022	Pesticides	Water
SB-6/GW-6 (16.70')	GCL45764	05/31/2022	Pesticides	Water
GW FD-1	GCL45765	05/31/2022	Pesticides	Field Duplicate
GW FB-1	GCL45766	05/31/2022	Pesticides	Field Blank
Equipment Blank 2	GCL45767	05/31/2022	Pesticides	Equipment Blank

Summary - Data validation was performed on the data for seven (7) aqueous samples, one (1) equipment blank, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for Pesticides by SW-846 Method 8081B in accordance with NYSDEC, Analytical Services Protocol (ASP) Format. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition– All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

DV Qualifier	Explanation
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All samples were extracted within 7 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

GC/ECD Instrument Performance Check – 4,4'-DDT and Endrin breakdown exhibited acceptable results.

Qualification: None required.

Surrogates – All surrogates %RECs values for aqueous samples were within the laboratory control limits.

Qualification: None required.

Method Blank (MB), Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB) – Method Blank (CL45760 BL) associated with the aqueous samples extracted on 06/03/2022 and analyzed on 06/06/2022 was free of contamination.

Qualification: None required.

– Equipment Blank 2 (GCL45767) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

– Field Blank (GW FB-1 [GCL45766]) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL45760 LCS was analyzed on 06/06/2022. All %RECs/RPDs were within the laboratory control limits except for endrin (151% %R and 27.9% RPD). Results for endrin in the field samples were non-detect.

Qualification: None required.

Field Duplicate (FD) – One aqueous duplicate pair was submitted with this SDG. Sample GW FD-1 (Lab Sample ID: GCL45765) was the field duplicate sample of SB-4/GW-4 (17.35') (Lab Sample ID: GCL45762). The results for pesticides in the FD sample pair were non-detect.

Qualification: None required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-7/GW-2 (17.15') (GCL45760). %REC/RPD were within the laboratory control limits except for delta-BHC (36.9% RPD). Delta-BHC was non-detect in the field sample.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – All sample results were reported within the linear calibration range. Results for SB-5/GW-5 (17.19') and SB-2/GW-1 (17.5') were analyzed at a 10x dilution.

Qualification: None required.

Data Review Summary – The pesticide results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– Pesticides data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/Kg)	Lab Qualifier	Validated Value (µg/Kg)	Validation Qualifier
SB-2/GW-1 (17.5')	GCL45759	Pesticides	No qualification needed.			
SB-7/GW-2 (17.15')	GCL45760	Pesticides	No qualification needed.			
SB-3/GW-3 (16.68')	GCL45761	Pesticides	No qualification needed.			
SB-4/GW-4 (17.35')	GCL45762	Pesticides	No qualification needed.			
SB-5/GW-5 (17.19')	GCL45763	Pesticides	No qualification needed.			
SB-6/GW-6 (16.70')	GCL45764	Pesticides	No qualification needed.			
GW FD-1	GCL45765	Pesticides	No qualification needed.			
GW FB-1	GCL45766	Pesticides	No qualification needed.			
Equipment Blank 2	GCL45767	Pesticides	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
HERBICIDES
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45757
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 07/21/23
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-2/GW-1 (17.5')	GCL45759	05/31/2022	Herbicides	Water
SB-7/GW-2 (17.15')	GCL45760	05/31/2022	Herbicides	Water
SB-3/GW-3 (16.68')	GCL45761	05/31/2022	Herbicides	Water
SB-4/GW-4 (17.35')	GCL45762	05/31/2022	Herbicides	Water
SB-5/GW-5 (17.19')	GCL45763	05/31/2022	Herbicides	Water
SB-6/GW-6 (16.70')	GCL45764	05/31/2022	Herbicides	Water
GW FD-1	GCL45765	05/31/2022	Herbicides	Field Duplicate
GW FB-1	GCL45766	05/31/2022	Herbicides	Field Blank
Equipment Blank 2	GCL45767	05/31/2022	Herbicides	Equipment Blank

Summary - Data validation was performed on the data for seven (7) aqueous samples, one (1) equipment blank, and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for Herbicides by SW-846 Method 8151A in accordance with NYSDEC, Analytical Services Protocol (ASP) Format. All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition– All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

DV Qualifier	Explanation
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All samples were extracted within 14 days from sample collection and analyzed within the 40 days following sample extraction.

Qualification: None required.

Surrogates – All surrogates %RECs values for all aqueous samples were within the laboratory control limits.

Qualification: None required.

Method Blank (MB), Storage Blank (SB), Trip Blank (TB), Field Blank (FB), Rinsate Blank (RB) and Equipment Blank (EB) – Method Blank (CL45760 BL) associated with the aqueous samples extracted on 06/03/2022 and analyzed on 06/06/2022 was free of contamination.

Qualification: None required.

– Method Blank (CL45808 BL) associated with the aqueous samples extracted on 06/06/2022 and analyzed on 06/07/2022 was free of contamination.

Qualification: None required.

– Equipment Blank 2 (GCL45767) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

– Field Blank (GW FB-1 [GCL45766]) associated with the aqueous samples collected on 05/31/2022 was free of contamination.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD associated with ID: CL45760 LCS was analyzed on 06/06/2022. All %RECs/RPDs were within the laboratory control limits except for 2,4-DB (35% %R).

Qualification: Non-detect results for 2,4-DB were qualified as estimated (UJ) in samples SB-2/GW-1 (17.5'), SB-7/GW-2 (17.15'), SB-3/GW-3 (16.68'), SB-4/GW-4 (17.35'), SB-5/GW-5 (17.19'), SB-6/GW-6 (16.70'), and GW FD-1.

– LCS/LCSD associated with ID: CL45808 LCS was analyzed on 06/07/2022. All %RECs/RPDs were within the laboratory control limits except for 2,4,5-T (23.2% RPD). Results for 2,4,5-T were non-detect in the associated field samples.

Qualification: None required.

Field Duplicate (FD) – One aqueous duplicate pair was submitted with this SDG. Sample GW FD-1 (Lab Sample ID: GCL45765) was the field duplicate sample of SB-4/GW-4 (17.35') (Lab Sample ID: GCL45762). The results for herbicides in the FD sample pair were non-detect.

Qualification: None required.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – Matrix Spike (MS)/Matrix Spike Duplicate (MSD) were performed on samples SB-7/GW-2 (17.15') (GCL45760). %REC/RPD were within the laboratory control limits.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – All sample reported for herbicides were analyzed at a 10x dilution.

Qualification: None required.

Data Review Summary – The herbicide results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– Herbicides data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (µg/L)	Lab Qualifier	Validated Value (µg/L)	Validation Qualifier
SB-2/GW-1 (17.5')	GCL45759	2,4-DB	48	U	48	UJ
SB-7/GW-2 (17.15')	GCL45760	2,4-DB	47	U	47	UJ
SB-3/GW-3 (16.68')	GCL45761	2,4-DB	49	U	49	UJ
SB-4/GW-4 (17.35')	GCL45762	2,4-DB	47	U	47	UJ
SB-5/GW-5 (17.19')	GCL45763	2,4-DB	47	U	47	UJ
SB-6/GW-6 (16.70')	GCL45764	2,4-DB	47	U	47	UJ
GW FD-1	GCL45765	2,4-DB	48	U	48	UJ
GW FB-1	GCL45766	Herbicides	No qualification needed.			
Equipment Blank 2	GCL45767	Herbicides	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
DISSOLVED METALS
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45757
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 07/24/22
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
SB-2/GW-1 (17.5')	GCL45759	05/31/2022	Dissolved Metals	Water
SB-7/GW-2 (17.15')	GCL45760	05/31/2022	Dissolved Metals	Water
SB-3/GW-3 (16.68')	GCL45761	05/31/2022	Dissolved Metals	Water
SB-4/GW-4 (17.35')	GCL45762	05/31/2022	Dissolved Metals	Water
SB-5/GW-5 (17.19')	GCL45763	05/31/2022	Dissolved Metals	Water
SB-6/GW-6 (16.70')	GCL45764	05/31/2022	Dissolved Metals	Water
GW FD-1	GCL45765	05/31/2022	Dissolved Metals	Field Duplicate
GW FB-1	GCL45766	05/31/2022	Dissolved Metals	Field Blank
Equipment Blank 2	GCL45767	05/31/2022	Dissolved Metals	Equipment Blank

Summary - Data validation was performed on the data for seven (7) aqueous samples and one (1) field blank sample and one (1) equipment blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for the following analyses:

1.1 Dissolved Metals-ICP-AES by SW-846 Method 6010D.
1.2 Dissolved Metals-MS by SW-846 Method 6020B.
1.3 Dissolved Metals-Furnace by Method E200.7-4.4 for Selenium.
1.2 Dissolved Mercury by SW-846 Method 7470A.

All sample results in this SDG were subjected to Level 2A data validation.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times – All aqueous samples were analyzed within the 6 months holding times for dissolved Metals analysis by ICP-AES/MS/Furnace.

Qualification: None required.

– All aqueous samples were digested and analyzed within the 28 days holding times for Mercury analysis.

Qualification: None required.

Initial and Continuing Calibration Verification (ICV and CCV) – Dissolved Metals – All %RECs in the ICV and CCVs were within QC limits for aqueous.

Qualification: None required.

Mercury – All correlation coefficient for Mercury calibration curve analyzed were ≤0.995.

Qualification: None required.

– All ICVs and CCVs %R values were within the QC limits for aqueous.

Qualification: None required.

Interference Check Sample – All %R values were within the QC limits for ICSA and ICSAB for aqueous.

Qualification: None required.

Blanks (Method Blank, ICB and CCB) – ICP-AES Method Blank (CL45760 BLK) was free of contamination.

Qualification: None required.

– MS Method Blank (CL45760 BLK) was free of contamination.

Qualification: None required.

– Furnace Method Blank (CL47610 BLK) was free of contamination.

Qualification: None required.

– ICB and CCBs for aqueous were either free of contamination or >10X ICB/CCB blank contamination.

Qualification: None required.

– Mercury – ICB and CCBs were free of contamination.

Qualification: None required.

– Method Blank (CL45760 BLK) was free of contamination.

Qualification: None required.

Field Blank (FB) and Equipment Blank (EB) – The field blank (GW FB-1 [GCL45766]) associated with these samples contained calcium (0.08 mg/L), magnesium (0.01 mg/L), and zinc (0.003 mg/L). Results for calcium and magnesium in the field samples were greater than the method blank contamination; no qualifications were required.

Qualification: Results for zinc in samples SB-2/GW-1 (17.5'), SB-3/GW-3 (16.68'), SB-4/GW-4 (17.35'), SB-5/GW-5 (17.19'), SB-6/GW-6 (16.70'), and GW FD-1 were qualified as estimated bias high (J+) (based on NFG [National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020]).

– The equipment blank 2 (GCL45767]) associated with these samples contained calcium (0.08 mg/L), magnesium (0.01 mg/L), and zinc (0.003 mg/L). Results for calcium and magnesium in the field samples were greater than the method blank contamination; no qualifications were required. Results for zinc were qualified previously for field blank qualification.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – ICP-AES, MS, Furnace, and Mercury – Laboratory Control Sample %RECs were within the laboratory control limits for aqueous and waters.

Qualification: None required.

Field Duplicate– One aqueous duplicate pair was submitted with this SDG. Sample GW FD-1 (Lab Sample ID: GCL45765) was the field duplicate sample of SB-4/GW-4 (17.35') (Lab Sample ID: GCL45762). The FD sample results for detected metals in the FD sample pair are summarized in the table below. Iron was detected in the field duplicate sample and non-detect in the field sample. Lead was detected in the field sample and was non-detect in the field duplicate sample. The calculated %RPDs between detected FD sample results were < 50% (see below).

Lab Sample ID	GCL45762		GCL45765		

Client Sample ID	SB-4/GW-4 (17.35')		GW FD-1		
Collection Date	05/31/2022		05/31/2022		
Analyte	**Result (mg/Kg)**	**Flag**	**Result (mg/Kg)**	**Flag**	**%RPD**
Barium	0.139		0.144		3.5
Calcium	45.2		45.6		0.9
Cobalt	0.001		0.001		0
Iron	0.011	U	0.035		NC
Potassium	5.5		5.6		1.8
Magnesium	14.4		14.8		2.7
Manganese	1.87		1.99		6.2
Sodium	394		392		0.5
Nickel	0.007		0.006		15.4
Lead	0.002		0.002	U	NC
Zinc	0.002		0.002		0

Qualification: Results for iron and lead were qualified as estimated (UJ/J) in the field duplicate pair (SB-4/GW-4 (17.35') and GW FD-1).

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) – ICP-AES, MS, Furnace, and Mercury – Matrix Spike (MS) was performed on sample SB-7/GW-2 (17.15') (GCL45760). MS %Recs were inside the control limits.

Qualification: None required.

Sample Duplicate – ICP-AES, MS, Furnace, and Mercury – Laboratory Duplicate was performed on sample SB-7/GW-2 (17.15') (GCL45760). Laboratory duplicate RPDs were inside the control limits.

Qualification: None required.

ICP-AES Serial Dilution – ICP serial dilution was performed on sample SB-7/GW-2 (17.15') (GCL45760). For all results for which the concentration in the original sample is ≥ 50x the Method Detection Limits (MDL), the serial dilution analysis (a five-fold dilution) was inside the acceptable limit (%D ± 10%).

Qualification: None required.

Verification of Instrumental Parameters – The following Forms were present in the data package:

– Method Detection Limits, Form- X.
– ICP-AES Interelement Correction Factors, Form -XIA and Form-XIB.
– ICP-AES Linear Ranges, Form XII.

Compound Quantitation and Reported Detection Limits – All sample results were reported within the linear calibration range. Numerous samples required 2x, 10x, and 100x dilutions.

Qualification: None required.

Data Review Summary – The dissolved metal results reported in this SDG are acceptable as reported and may be used for their intended purpose.

– Dissolved Metals data package requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (mg/L)	Lab Qualifier	Validated Value (mg/L)	Validation Qualifier
SB-2/GW-1 (17.5')	GCL45759	Zinc	0.004		0.004	J+
SB-7/GW-2 (17.15')	GCL45760	Metals	No qualification needed.			
SB-3/GW-3 (16.68')	GCL45761	Zinc	0.003		0.003	J+
SB-4/GW-4 (17.35')	GCL45762	Zinc	0.002		0.002	J+
SB-4/GW-4 (17.35')	GCL45762	Iron	0.011	U	0.011	UJ
SB-4/GW-4 (17.35')	GCL45762	Lead	0.002		0.002	J
SB-5/GW-5 (17.19')	GCL45763	Zinc	0.003		0.003	J+
SB-6/GW-6 (16.70')	GCL45764	Zinc	0.003		0.003	J+
GW FD-1	GCL45765	Zinc	0.002		0.002	J+
GW FD-1	GCL45765	Iron	0.035		0.035	J
GW FD-1	GCL45765	Lead	0.002	U	0.002	UJ
GW FB-1	GCL45766	Dissolved Metals	No qualification needed.			
Equipment Blank 2	GCL45767	Dissolved Metals	No qualification needed.			

DATA USABILITY SUMMARY REPORT (DUSR)
PERFLUORINATED ALKYL SUBTANCES (PFAS)
USEPA Region II –Data Validation

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: 22F0242
Laboratory: York Analytical Laboratories, Inc.	Date: 6/30/2022
KGS/Trinity Reviewer: Sherri Pullar	KGS Project: 10137-001

Client Sample ID	Lab Sample ID	Collection Date	Analysis	Matrix
GW-2-FB	22F0242-01	05/31/2022	PFAS	Field Blank
SB-2-GW-1 (17.5 ft)	22F0242-02	05/31/2022	PFAS	GW
SB-7-GW-2 (17.15 ft)	22F0242-03	05/31/2022	PFAS	GW
SB-3-GW-3 (16.68 ft)	22F0242-04	05/31/2022	PFAS	GW
SB-4-GW-4 (17.35 ft)	22F0242-05	05/31/2022	PFAS	GW
SB-5-GW-5 (17.19 ft)	22F0242-06	05/31/2022	PFAS	GW
SB-6-GW-6 (16.20 ft)	22F0242-07	05/31/2022	PFAS	GW

Summary - Data validation was performed on the data for six (6) groundwater (GW) samples and one (1) field blank sample that were collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for PFAS.

Narrative and Completeness Review – The data package was checked for completeness. No other discrepancies were noted.

Sample Delivery and Condition – All samples arrived at the laboratory on 06/03/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Holding Times – All aqueous samples were extracted within 14 days from sample collection and analyzed within 28 days following sample extraction.

Qualification: None required.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

DV Qualifier	Explanation
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Initial Calibration and Continuing Calibration Verification (CCV) – Initial calibration and continuing calibration verifications met the method acceptance criteria in Batch sequence Y2F1021 except for 6:2 FTS (31.3%) and 8:2 FTS (53.4%).

Qualification: Non-detect results for 6:2 FTS and 8:2 FTS were qualified as estimated (UJ) in samples GW-2 FB, SB-2 GW-1 (17.5 ft), SB-7 GW-2 (17.5 ft), 3 GW-3 (16.68 ft), SB-4 GW-4 (17.35 ft), SB-5 GW-5 (17.19 ft), and SB-6 GW-6 (16.20 ft).

Surrogates (Extracted Internal Standard)–M2-6:2FTS in samples SB-2 GW-1 (17.5 ft) (264%) and SB-5 GW-5 (17.19 ft) (316%) and M2-8:2FTS in samples SB-2 GW-1 (17.5 ft) (247%) and SB-5 GW-5 (17.19 ft) (318%); M8FOSA in samples SB-7 GW-2 (17.5 ft) (4.24%), SB-3 GW-3 (16.68 ft) (1.80%), SB-4 GW-4 (17.35 ft) (6.64%), and SB-6 GW-6 (16.20 ft) (7.30%) were outside the QC acceptance limits. The remaining surrogate %REC values were within the QC acceptance limits. Results for 6:2FTS and 8:2FTS in samples SB-2 GW-1 (17.5 ft) and SB-5 GW-5 (17.19 ft) were non-detect.

Qualification: Non-detect result for FOSA was qualified as estimated (UJ) in samples SB-3 GW-3 (16.68 ft), SB-4 GW-4 (17.35 ft), SB-7 GW-2 (17.5 ft), and SB-6 GW-6 (16.20 ft).

Method Blank (MB), Field Blank (FB) and Equipment Blank (EB) – Method Blank (BF20560-BLK1) associated with the samples analyzed on 06/09/2022. The method blank prepared and analyzed with these samples was free of contamination.

Qualification: None required.

Field Blank (FB) and Equipment Blank (EB) – Field Blank (GW-2 FB [22F0242-01]) associated with the aqueous samples collected on 05/31/2022 contains PFHpA (1.92 ng/L). Results for PFHpA in samples SB-2 GW-1 (17.5 ft), SB-7 GW-2 (17.15 ft), SB-3 GW-3 (16.68 ft), SB-4 GW-4 (17.35 ft), SB-5 GW-5 (17.19 ft), and SB-6 GW-6 (16.20 ft) were greater than the blank concentration or non-detect.

Qualification: None required.

Laboratory Control Sample (LCS)/ Laboratory Control Sample Duplicate (LCSD) – Laboratory Control Sample associated with Batch ID: BF20560-BS1/BSD1 were analyzed on 06/09/2022. All %RECs were within the laboratory control limits.

Qualification: None required.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) – MS/MSD were not performed on a sample from this SDG.

Qualification: None required.

Field Duplicate – Aqueous duplicate pair was not submitted with this SDG.

Qualification: None required.

Compound Quantitation, Compound Identification and Reported Detection Limits – All sample results were reported within the linear calibration range except for PFOA in sample SB-6 GW-6.

Qualification: Result for PFOA was qualified as estimated (J) in Sample SB-6 GW-6 (16.20 ft).

Data Review Summary – The PFAS field sample results reported in this SDG are acceptable as reported and may be used for their intended purpose.
– PFAS data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (ng/L)	Lab Qualifier	Validated Value (ng/L)	Validation Qualifier
GW-2-FB	22F0242-01	6:2 FTS	4.73	U	4.73	UJ
GW-2-FB	22F0242-01	8:2 FTS	1.89	U	1.89	UJ
SB-2-GW-1 (17.5 ft)	22F0242-02	6:2 FTS	4.63	U	4.63	UJ
SB-2-GW-1 (17.5 ft)	22F0242-02	8:2 FTS	1.85	U	1.85	UJ
SB-7-GW-2 (17.15 ft)	22F0242-03	6:2 FTS	4.46	U	4.46	UJ
SB-7-GW-2 (17.15 ft)	22F0242-03	8:2 FTS	1.79	U	1.79	UJ
SB-7-GW-2 (17.15 ft)	22F0242-03	FOSA	1.79	U	1.79	UJ
SB-3-GW-3 (16.68 ft)	22F0242-04	6:2 FTS	4.63	U	4.63	UJ
SB-3-GW-3 (16.68 ft)	22F0242-04	8:2 FTS	1.85	U	1.85	UJ
SB-3-GW-3 (16.68 ft)	22F0242-04	FOSA	1.85	U	1.85	UJ
SB-4-GW-4 (17.35 ft)	22F0242-05	6:2 FTS	4.63	U	4.63	UJ
SB-4-GW-4 (17.35 ft)	22F0242-05	8:2 FTS	1.85	U	1.85	UJ
SB-4-GW-4 (17.35 ft)	22F0242-05	FOSA	1.85	U	1.85	UJ
SB-5-GW-5 (17.19 ft)	22F0242-06	6:2 FTS	4.73	U	4.73	UJ
SB-5-GW-5 (17.19 ft)	22F0242-06	8:2 FTS	1.89	U	1.89	UJ
SB-6-GW-6 (16.20 ft)	22F0242-07	6:2 FTS	4.81	U	4.81	UJ
SB-6-GW-6 (16.20 ft)	22F0242-07	8:2 FTS	1.92	U	1.92	UJ
SB-6-GW-6 (16.20 ft)	22F0242-07	PFOA	222	E	222	J
SB-6-GW-6 (16.20 ft)	22F0242-07	FOSA	1.92	U	1.92	UJ

DATA USABILITY SUMMARY REPORT (DUSR)
Volatile Organic Compounds
Method TO-15
USEPA Level 4 Review

Site: 1665 Stillwell Avenue, Brooklyn, NY	SDG #: GCL45752
Laboratory: Phoenix Environmental Laboratories, Inc.	Date: 08/21/2022
KGS/Trinity Reviewer: Sherri Pullar	Project: 10137-001

Lab Sample ID	Client Sample ID	Collection Date	Analysis	Matrix
CL45752	SV-2	05/31/22	VOA	Air
CL45753	SV-1	05/31/22	VOA	Air
CL45754	SV-3	05/31/22	VOA	Air
CL45755	SV-4	05/31/22	VOA	Air
CL45756	OA-1	05/31/22	VOA	Air

Summary - Data validation was performed on the data for five (5) air samples collected from 1664 Stillwell Avenue, Brooklyn, NY on 05/31/2022 and submitted for Volatile Organic (VOC) analyses by Method TO-15. The USEPA Region-II SOP # HW-31, Revision 6, September 2016, Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15 was used in evaluating the Volatiles data in this summary report.

Narrative and Completeness Review – The case narrative and data package were checked for completeness.

Qualification: None required.

Sample Delivery and Condition–Samples arrived at the laboratory on 06/01/2022 in acceptable condition and temperature and were properly preserved. Proper custody was documented.

Qualification: None required.

Data Qualifier Definitions – The following definitions provide brief explanations of the data qualifiers possibly assigned to results in this data review process.

DV Qualifier	Explanation
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	The data are unusable. The sample results are rejected due to serious

DV Qualifier	Explanation
	deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Holding Times– All air samples were analyzed within the method holding time for summa canisters (30 days).

Qualification: None required.

Initial Calibration - Initial calibration curve analyzed on 05/16/2022 (Chem20) exhibited acceptable %RSDs (≤30.0%) for all compounds and average RRF values (≥0.050) for all compounds.

Qualification: None required.

Continuing Calibration Verification (CCV): - The %D for the CCVs analyzed and reported with these samples on 06/01-02/2022 were within acceptance limits.

Qualification: None required.

- The %D for the CCVs analyzed and reported with these samples on 06/02-03/2022 were within acceptance limits except for methylene chloride (45.5%) and 1,2,4-trichlorobenzene (sim) (25%). Results for methylene chloride and 1,2,4-trichlorobenzene were not reported from this analytical run for the associated samples.

Qualification: None required.

Internal Standard (IS) Area Performance: - Samples exhibited acceptable area counts for all internal standards except for chlorobenzene-d5 in sample SV-1 (x5) Full and SIM.

Qualification: Non-detect results for bromoform (sim), 1,1,2,2-tetrachloroethane (sim), benzyl chloride (sim), 1,3-dichlorobenzene (sim), 1,4-dichlorobenzene (sim), 1,2-dichlorobenzene (sim), n-butylbenzene (sim), hexachlorobutadiene (sim), 1,1,1,2-tetrachloroethane, chlorobenzene, and the results for ethylbenzene, m,p-xylene, styrene, o-xylene, isopropylbenzene, 4-ethyltoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, and 4-isopropyltoluene were qualified as estimated (UJ/J) in sample SV-1.

Laboratory Control Sample (LCS) –LCS percent recoveries (%R) for the reported analytes were within control limits.

Qualification: None required.

Method Blank– The method blanks prepared and analyzed with these samples were free of contamination.

Qualification: None required.

Canister Blank– The canister blanks prepared and analyzed with these samples were free of contamination.

Qualification: None required.

Laboratory Duplicate –Laboratory Duplicate was not performed on a sample from this SDG.

Qualification: None required.

Field Blanks – No field blanks were included in this SDG.

Qualification: None required.

Field Duplicate — No field duplicates were included in this SDG.

Qualification: None required.

Compound Quantitation –Analyte non-detections were reported as "U"; these results should be considered the equivalent of "RL (reporting limit) U." Samples SV-2, SV-1, SV-3, and SV-4 required dilutions of 5x, 15x, and 30x.

Qualification: None required.

– Sample results were reported within the linear calibration except for ethanol, acetone, hexane, toluene in sample SV-2; ethanol, acetone, and toluene in sample SV-1; ethanol, acetone, and toluene in sample SV-3; ethanol, acetone, and toluene in sample SV-4; and ethanol in sample OA-1. The laboratory re-ran sample SV-2 at 15 and 30 dilutions; SV-1 at 15 and 30 dilutions; SV-3 at a 5 dilution; SV-4 at a 30 dilution. Result for ethanol in sample OA-1 was not re-analyzed at a dilution.

Qualification: The result for ethanol were qualified as estimated (J) in sample OA-1.

Data Review Summary – Volatile air data package meet requirement for New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B Deliverables.
– The VOC air results reported in this SDG are acceptable as reported and may be used for their intended purpose.

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (ug/m3)	Lab Qualifier	Validated Value (Final Value) (ug/m3)	Validation Qualifier (Final Qualifier)
CL45752	SV-2	ethanol	652		652	
CL45752	SV-2	acetone	1320		1320	
CL45752	SV-2	hexane	1100		1100	
CL45752	SV-2	toluene	2470		2470	
CL45753	SV-1	ethanol	1010		1010	
CL45753	SV-1	acetone	1240		1240	
CL45753	SV-1	toluene	3030		3030	
CL45753	SV-1	bromoform (sim)	5.00	U	5.00	UJ
CL45753	SV-1	1,1,2,2-tetrachloroethane (sim)	5.00	U	5.00	UJ
CL45753	SV-1	benzyl chloride (sim)	5.00	U	5.00	UJ
CL45753	SV-1	1,3-dichlorobenzene (sim)	5.00	U	5.00	UJ
CL45753	SV-1	1,4-dichlorobenzene (sim)	5.00	U	5.00	UJ
CL45753	SV-1	1,2-dichlorobenzene (sim)	5.00	U	5.00	UJ
CL45753	SV-1	n-butylbenzene (sim)	5.00	U	5.00	UJ
CL45753	SV-1	hexachlorobutadiene (sim)	5.00	U	5.00	UJ
CL45753	SV-1	1,1,1,2-tetrachloroethane	5.00	U	5.00	UJ
CL45753	SV-1	chlorobenzene	5.01	U	5.01	UJ
CL45753	SV-1	ethylbenzene	331		331	J
CL45753	SV-1	m,p-xylene	1370		1370	J
CL45753	SV-1	styrene	19.5		19.5	J
CL45753	SV-1	o-xylene	394		394	J
CL45753	SV-1	isopropylbenzene	27.1		27.1	J
CL45753	SV-1	4-ethyltoluene	648		648	J

Client Sample ID	Lab Sample ID	Compound/Analysis	Lab Value (ug/m3)	Lab Qualifier	Validated Value (Final Value) (ug/m3)	Validation Qualifier (Final Qualifier)
CL45753	SV-1	1,3,5-trimethylbenzene	136		136	J
CL45753	SV-1	1,2,4-trimethylbenzene	614		614	J
CL45753	SV-1	sec-butylbenzene	9.11		9.11	J
CL45753	SV-1	4-isopropyltoluene	17.5		17.5	J
CL45754	SV-3	ethanol	142		142	
CL45754	SV-3	acetone	212		212	
CL45754	SV-3	toluene	372		372	
CL45755	SV-4	ethanol	574		574	
CL45755	SV-4	acetone	1050		1050	
CL45755	SV-4	toluene	2790		2790	
CL45756	OA-1	ethanol	84.0	E	84.0	J